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# MONTHLY

# LABOR REVIEW

Vol. XX, No. 5



May, 1925

### SPECIAL PEATURES IN THIS ISSUE

Efficiency and wages in the United States

Coal situation in Illinois

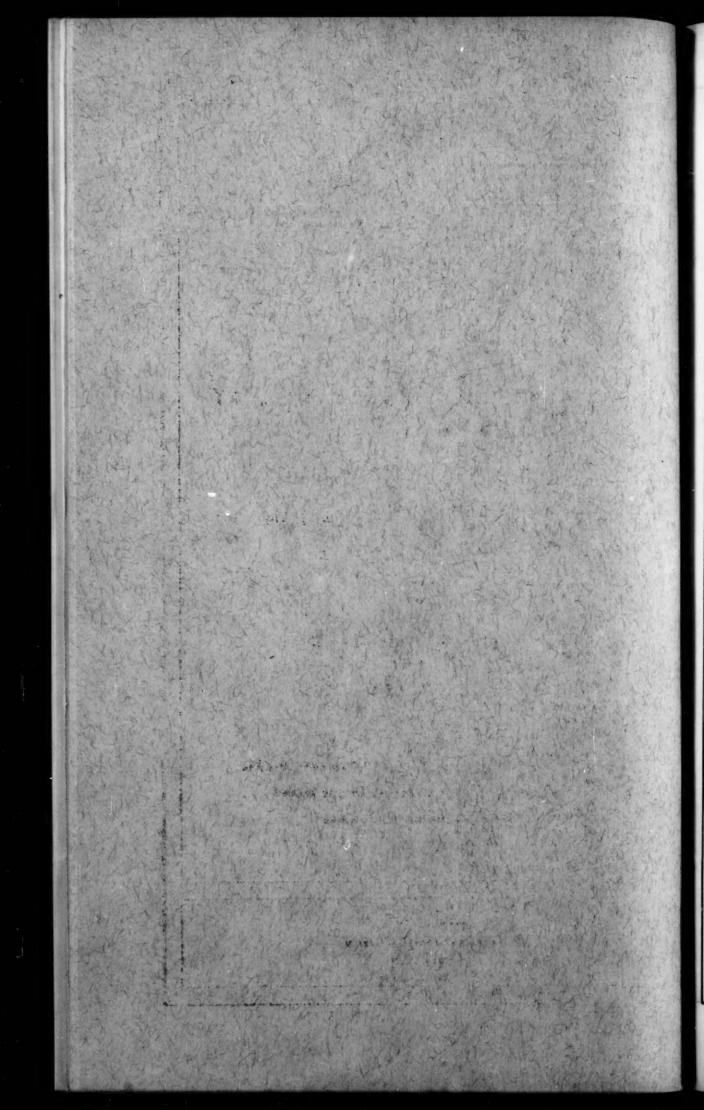
Trend of occupations in the population

Experiment of protocolism in women's garment trades

Wages and hours of labor in metalliferous mines

Productivity of labor in Illinois coal mines

WASHINGTON GOVERNMENT PRINTING OFFICE



#### U. S. DEPARTMENT OF LABOR

JAMES J. DAVIS, Secretary

#### BUREAU OF LABOR STATISTICS

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# MONTHLY

# LABOR REVIEW

VOLUME XX

NUMBER 5



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RUREAU OF LABOR STATISTICS

MONTHLY

LABOR REVIEW

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WASHINGTON

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### Efficiency and Wages in the United States

By James J. Davis, United States Secretary of Labor

NE needs to visit other countries in order to realize just how big, how prosperous and how efficient the people of the United

States really are.

We see at home so many instances of inefficiency, so many places where old methods still obtain, and we contrast the up-to-date plant with the plant which ought to have been scrapped 20 years ago, that sometimes we get impatient and sometimes we growl. But when we come back to the United States from abroad we appreciate that, all in all, we have a wonderful and efficient and up-to-date country and that even things we regard as back numbers here seem really wonderful methods or machines when compared with the best in other places.

The industrial economic genius of the American people has been shown and possibly more thoroughly tested in the last 10 years than ever before. The fact that we have grown and progressed while all other nations have been floundering, and most of them slumping and sliding back industrially, economically, and financially, is an evidence, yea, verily, a proof, that the American mind is geared to a mesh

that drives it through any set of conditions.

Do you realize that in the field of manufacturing alone we produce more than \$60,000,000,000 worth of manufactured goods per year? In 1923 the value of manufactured products was precisely \$60,481,-135,000, which represents an increase of 38½ per cent over the production of 1921. While the money value shows some falling off as against 1919, yet in actual quantities produced there was an increase of 19 per cent in 1923 over the quantities produced in 1919. The number of persons engaged in manufacturing in 1923 was 10,176,750, and of these 8,763,233 were actual wage earners, an increase in wage earners of more than 26.2 per cent over 1921. The wage payments in 1923 were \$10,985,895,000, an increase of 34 per cent over 1921.

Now, the manufacturing establishment, of course, takes in a quantity of raw material and further fabricates, changes, or develops it into finished output. Much of the raw material is, in fact, the finished product of other manufacturing establishments, so that perhaps the best measure of what our manufacturing industries are really doing is the value added by manufacture; in other words, the difference between raw material as it goes into a given factory and the value of the finished product as it emerges from that factory.

### Increase in Labor Efficiency

APPLYING this test we find that the value created over and above raw material cost in the manufacturing plants of the United States in 1923 was \$25,853,151,000, an increase of 41.1 per cent as compared with 1921, whereas the number of wage workers

I would like to [957] to long to a statement, rece

1

increased but 26.2 per cent and the amount of wages paid increased 34 per cent. This brings us to the conclusion that labor is becoming more and more efficient and that the wages of labor are not, taking the country as a whole and everything into consideration, absorbing an unfair share of the country's increasing prosperity.

We hear enough and more than enough about the high wage rates and the terrible wages we have to pay for labor in the United States. We hear very little about labor cost in the finished product. We hear very little, entirely too little, of that marvel of modern times, the efficiency of the American laborer coupled with the

machinery or equipment with which he toils.

That efficiency is increasing every year. I know it is a very common thing to refer to machine production as compared with hand production, as though the machine when once introduced had created a new and fixed standard of output per man. The question to-day is not one of the productivity of labor as between machine methods and hand methods but as between the machines of to-day and the machines of a year ago or two years ago.

We hear plenty about the increase in wages since the World War, the increase in wages of boot and shoe workers, for instance; but we are not always told that the output per man-hour has also tremen-

dously increased.

For instance, in the same establishment in New England where, since 1916, wages have increased 48.5 per cent the efficiency of labor as measured in output per man-hour has increased 25.1 per cent. This increase in efficiency, acting as a shock absorber, has taken up a very perceptible amount of the wage increase. In that plant it required 1 hour and 42 minutes of one man's time to produce a pair of shoes in 1916. To-day it takes 54 minutes of one man's time. This has no doubt been accomplished by introduction of more effective machinery and by more efficient shop management. But I believe it will be good business policy all along the line, when improvements in machinery are made that enable a man to produce more output, to let that man share and share liberally in the gain that comes to production from such improved machinery.

Take another instance, the production of pig iron. I am not so much interested that away back in 1850 in the charcoal furnaces in which all the work was handwork the production per man was only 25 tons; but I am interested to know that in 1904 it was 470 tons and that in 1909 it was 671 tons and that in 1919 it was 811 tons, and that to-day it is 1,179 tons. I am interested to know that in 1919 we produced more tons of pig iron and employed fewer men in doing it than we did in 1909. In 1891 it required from 14 to 16 hours of one man's time to produce a long ton of pig iron. To-day in the eastern district it requires 2 hours and 18 minutes, while in Pittsburgh and Chicago it requires 1 hour and 54 minutes, and in the Southern

and Gulf States it requires 4 hours and 30 minutes.

In textiles we are in an unfortunate situation at this time. The price of raw material, of cotton and wool in the raw, has reached a price level almost unheard of, and the tendency seems to be in some quarters to cut the pay roll to equalize, or partially equalize, this tremendous advance in raw material. We are told that the industry can not operate with the present rates of wages and the present cost of material. I would like to call attention to a statement, recently

published, to the effect that whereas three or four years ago weavers operated 4 to 6 looms, never more than 10, that they are now going back to these plants after a wage cut and are operating 36 looms. Up to a few years ago New England textile mills were winding their warp beams with about 50 pounds of cotton or wool, as the case might be. Later, these mills substituted beams ranging from 150 to 300 pounds, while to-day up-to-date plants with machinery for handling material are using beams from 600 to 1,000 pounds.

I think it will be agreed that labor cost can be met by a much simpler and more humane method than by reduction of wages of

labor of men and women.

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### Wage Cuts Not Always Cost Cuts

THE brick manufacturers and the brickyard workers of Chicago have just entered into a new wage agreement providing for a 13 per cent increase in wages. There are instances in Chicago where a machine, tended by one man, shoots out 49,000 bricks an hour. Naturally, it does not make much difference how much wages they pay that man. His wages would have very little effect upon the

labor cost of a thousand bricks.

Of course all brickyards are not so well equipped, but the question arises whether it would be better to improve the equipment and thus increase output and decrease labor cost rather than to resort to a reduction of wages; and I may say that reduction of wages does not always mean a reduction of labor cost even in the same plant and with the same equipment, because with lower wages a certain per cent of the more efficient workers who can get better wages elsewhere are driven out and their places filled with a less efficient class of labor, which increases the labor cost.

The records of the Bureau of Labor Statistics, for instance, show that in a plant where it required 13½ hours, one-man time, to produce a thousand brick, the labor cost per thousand was greater, though this plant paid only 17 cents an hour, than it was in another plant which paid 79 cents an hour. Thirteen per cent increase in wages occurred in the plant paying 79 cents an hour, and the fellow who was paying 17 cents is looking for immigrants, Mexicans, with the result that his labor cost per thousand brick will

probably be increased.

Increased efficiency should, in my mind, be the watchword of the American employer all along the line—increased efficiency rather than reduction in wage rates.

# most avail and Wage Earners' Investments to appose this Minor I

I WANT to call attention to another tendency of the time, a tendency which can of course be not only checked but annihilated by a persistent and radical reduction in wages. I refer to the tendency of the wage-working masses to turn their savings back into industry and become the source of capital supply for business.

For some time past the railroads have been complaining that they found it difficult to secure loans to cover the cost of really needed development, improvements, and repairs. On February 7 the president of the New York Central Railroad lines, P. E. Crowley, an-

nounced that as a result of a three weeks' drive for stock subscriptions among the employees of the system 41,570 employees of the road had subscribed for stock and that the amount offered under the com-

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pany's plan was oversubscribed by 176 per cent.

Let me call attention to the occupational list of stockholders of a certain group of telephone companies. I refer to the sale recently of preferred stock by the Bell Telephone Co. of Pennsylvania, the Wisconsin Telephone Co., and a part of the Southwestern Bell Telephone Co. There were 118,799 subscribers, who took 733,676 shares. Among these were 2,627 accountants, 527 barbers, 10,774 clerks, 21,626 housewives, 24,317 laborers, 1,043 members of the building trades, 4,101 stenographers, 468 tailors, 498 domestics, and so forth and so on.

Here, through the machinery of corporate stocks, is to be a source of capital for investment in the years to come. When we talk about the demands of the laborers for wages—and sometimes they are very unreasonable—as being an attempt to "kill the goose that lays the golden egg," let me say that there is a way to protect the aforesaid goose. Let the wage earners of this country be once thoroughly convinced of corporate honesty, of corporate willingness to be fair and reasonable and just as between man and man, and the wage earners of this country will invest their savings in corporate stocks, preferred or common, and thus turn back into the business the money needed to conduct its affairs.

Now, as a part of being fair and just, managers of corporations should, in my judgment, do two things. First and foremost, let the wage worker have a full share in the increase of production that comes through improved machinery and factory equipment, always installing up-to-date methods to increase productive efficiency, rather than reduce wages; and, second, though this will be found to be a part of the first, gain the confidence of the workman; let him

help to improve production methods.

I say without fear of contradiction that wherever the employee council has been given a fair trial it has worked out to the benefit of both the employer and employee. It has benefited business, it

has improved the community.

The Russell Sage Foundation has just got out a report on the Dutchess Bleachery experiment which every man ought to read. I might cite the case of the Colorado Fuel & Iron Co. in its coal mines in Colorado. There certainly has been more peace and more employment and more coal under this arrangement than that locality ever knew before. I think the method might be greatly improved, but it is headed in the right direction.

I could cite scores of cases where the employees have been taken into the advisory councils of the management very much to the benefit of both. I would say to the manufacturer, give the worker a chance to see what you are doing, and give yourself a chance to see what he is thinking, especially what he is thinking about his work.

### Industrial Overdevelopment

I REALIZE that with plenty of capital available from the savings of industry and with the rapid increase in the productive efficiency of labor which is going on all around us, we are heading toward

another trouble, which is already upon us in a most acute form in the bituminous coal fields, and that is the overdevelopment of industry. We are industrially a young, powerful people. We do things, and sometimes we overdo things. We have overdone the bituminous coal business.

Forty per cent of our coal mines employing 75 per cent of the workers now in the industry could, by employing them all the time,

produce all the coal that we could use or sell.

With our present iron and steel equipment we can produce in seven

months our needs for a year.

Our window-glass factories in 17 weeks can supply all that we can

consume in a year.

The census of 1923 shows that there are 1,542 boot and shoe factories in the United States. Fourteen per cent of these do 65 per cent of the total business now, but if they operated to full capacity and full time this 14 per cent has the ability and the power to produce all the shoes required in the country. Aside from the plants constituting the 14 per cent, 47 per cent of the shoe manufacturers produce 32 per cent of the output, and these could with their present equipment increase their production 50 per cent. Thirty-eight per cent of the manufacturers of boots and shoes produce only 2½ per cent of the total output, and these are the price cutters, the pests of the industry.

This question of overdevelopment is a serious problem. Out of it grows nine-tenths of our unemployment. From it flame up our

booms, which precede our panics.

I started out by remarking what a great country this is industrially and economically. I would not recall one word of it, but our very greatness, our very strength, our very racial characteristics make it exceedingly important for us to watch our step, and guard against some of the pitfalls inherent in our very system and method of business. They make it necessary for us to get away from some of our inherited superstitions about master and servant, about the right to run our own business in our own way and do as we please with our own; make it necessary to protect not only our individualism but our citizenship, our social relations one with another; make it necessary to recognize the mass man and a mass interest, a community of mankind of which we are only a part and not the whole thing.

having any intrinsic significance. In the following discussion of the

road to points more or less distant from the mine and presumable

ASSTATED above, these 338 more were in operation an average of 139 days during 1923-24, and it is here that the trouble begins when one endeavors to get a real nicture of the situation

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### Coal Situation in Illinois

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90 and 100 a: day: 110 a: day:

By Ethelbert Stewart, United States Commissioner of Labor Statistics

THE bituminous coal situation in Illinois is essentially identical with that of every other bituminous coal State or group of States, and may be taken as a fair picture of the bituminous

coal industry as a whole.

Illinois has 1,032 coal mines. Of these, 694, or more than two. thirds, are so-called local or wagon mines, shipping no coal whatever by railroad. It will, therefore, be seen that Illinois has a "snow. bird" problem as great as any other State in the Union. As a comment upon the term "snowbird," applied to local coal mines and supposed to signify that they operate only in the winter time, it may be said that the average running time of the local mines in Illinois for the year ending June 30, 1924, was 140 days, whereas the shipping mines averaged 139 days. A number of serious-minded men have questioned whether the local mine in the various bituminous coal States constitutes as serious a problem as it is represented These mines are scattered all over the State wherever coal to be. They are usually drift or slope mines, in which the coal is mined by hand. There is neither motor nor mule in any of these mines, the coal being pushed on pit cars by hand either to the mouth of the opening or to the base of the shaft. In these local mines an average of 3,640 underground and 626 surface workers are employed, or a total of 4,266 employees. However, of the 72,308,665 short tons of coal produced in Illinois during the year ending June 30, 1924, as shown in the Illinois coal report, these local mines produced only 1,984,302 tons, 1,739,482 tons of which were sold to the local trade. while the remainder was used at the mines. The production of the local mines is therefore insignificant. They supply a purely local trade that can be reached by wagon. None of their output reaches the great competitive centers, and its interference with trade can be with domestic trade alone.

The 338 shipping mines sold 1,609,980 tons of their output to the same sort of local trade, or an amount almost equal to that sold by all of the local mines combined. It would seem, therefore, that the local mine question might well be eliminated from the entire discussion of bituminous coal troubles and that those writers are correct who claim that its introduction simply confuses the issue without having any intrinsic significance. In the following discussion of the Illinois coal situation, therefore, we will eliminate the local mines and discuss only the 338 mines of the State which ship coal.

In the period under discussion these shipping mines produced more than 70,000,000 tons, of which 44,242,533 tons were shipped by railroad to points more or less distant from the mine and presumably

to competitive markets.

# Operating Time

AS STATED above, these 338 mines were in operation an average of 139 days during 1923-24, and it is here that the trouble begins when one endeavors to get a real picture of the situation.

<sup>&</sup>lt;sup>1</sup> Illinois. Department of mines and minerals. Forty-third annual coal report, 1924, Springfield, 1924.

This average is a figure which conceals all the facts that are worth knowing about the running time of coal mines in Illinois. In the first place, the running time as reported is the tipple time or the days upon which the mine actually loads coal for shipment. Formerly it was the custom for companies to include as a full day of operation each day upon which the tipple worked at all. For instance, if, in a mine capable of filling 100 railroad cars per day, only 5 cars could be obtained and the tipple worked only long enough to fill these 5, this time was reported as a day of operation.

Very strenuous efforts have been made by the United States Geological Survey and the various State bureaus to get away from this loose method of reporting and to have the tipple time reported on a full-time basis. No doubt great improvement in this regard has been made, but there still remains a good deal of inaccuracy about the reporting of tipple time. At best, reports of tipple time give little indication as to whether the mine itself was at work, as they do not show what percentage of the miners were mining coal at the time or whether any of them were at work. The tipple can be operated, so long as there is coal in the pit cars in the mine, even

though no actual production is going on.

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To obtain the average of 139 days' operation for the shipping mines in Illinois the total days reported by the 338 mines, regardless of their size, were simply added and divided by 338. In other words, the figures for the mine that runs 30 days and produces the minimum produced by any shipping mine are combined with and given the same weight as those for the mine that runs 275 days and produces a million tons. As is too often the case, the average here is worse than meaningless; it is vicious. Fortunately, the Illinois Department of Mines presents in its report an array of details that permits recasting of the entire report to show what really lies behind this simple average. This has been done in the following table, which classifies the mines by days of operation and also shows the amount and per cent of production, and the number and per cent of employees by mines so classified.

Table 1.—NUMBER AND PER CENT OF EMPLOYEES AND OF TONS PRODUCED IN ILLINOIS COAL MINES IN OPERATION EACH CLASSIFIED NUMBER OF DAYS DURING 1923-24

a stolder aid	Mines			es b	Empl	oyees	ayai	Produ	uction	n e	2435 VI		Num- ber of	
Days of operation	Days of operation	Num- ber	Percent		Num- ber	Percent	Cu- mu- la- tive per cent	age num- ber per	Amount (tons)	Percent	Cu- mu- la- tive per cent	A verage number of days worked (weight- ed)	pro- duc- tion	men neces- sary at 300
Under 10 days	1	0.3					34	3,800		0. 01	9. 0			
10 and under 20 days. 20 and under 30 days.	4	1. 2		489 1, 596	1.7	2.2	122 266	23, 198 167, 511	.03	0	18. 0 25. 3			
30 and under 40 days.	6 8	2, 4	5. 7	1, 821	1. 9	4, 1	228	373, 319		.7	35, 2	5.8		
40 and under 50 days	10	3. 0		2, 284	2.4	6, 5	228	458, 773	. 5	1.4	42, 6			
50 and under 60 days_	6	1.8	10. 5		1. 1	7. 6	177	271, 698	.4		53. 7	4.8		
Coand under 70 days	14	4. 1	14.6			9. 7	141	722, 196			63. 6	5. 7		
70 and under 80 days.	16	4.7	19. 3				232	1, 320, 475			76. 1	4.7	940	
80 and under 90 days.	15	4. 4	23. 7	3, 985		17.8	266	1, 838, 458	2.6		84. 7	5. 4	1, 125	
90 and under 100 days 100 and under 110	14	4. 1	27. 8	2, 933	3. 1	20. 9	210	1, 368, 390	1.9	9, 2	95. 3	4. 9	932	
daysli0 and under 120	18	5. 3	33. 1	6, 323	6. 6	27. 5	351	3, 818, 439	5: 4	14. 6	103. 9	5. 8	2, 191	
days	16	4.7	37. 8	3, 628	3.8	31. 3	227	2, 332, 576	3.3	17. 9	114. 5	5. 6	1, 385	

[963]

TABLE 1.—NUMBER AND PER CENT OF EMPLOYEES AND OF TONS PRODUCED IN ILLINOIS COAL MINES IN OPERATION EACH CLASSIFIED NUMBER OF DAYS DUB. ING 1923-24-Continued

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	Mines			1 10	Emp	loyees	i vil	Prod	uction	100	I risa	Av-	Nun
Days of operation	Num- ber	Percent	Cu- mu- la- tive per cent	Num- ber	Percent	Cu- mu- la- tive per cent	Average number per mine	Amount (tons)	Per cent	Cu- mu- la- tive per cent	Average number of days worked (weight- ed)	erage pro- duc- tion per man per day	neces sary at 30 days
120 and under 130 days	23	8.0	44.6	7, 264	7.0	38. 9	916	E 050 104	7.0	05.1	10r o		
130 and under 140	23	0 7 11		VAC	-11.7	30, 9	310	5, 058, 184	1.2	25. 1	125, 3	5.6	3,08
days	24	7.1	51.7	5, 448	5, 7	44. 6	227	3, 623, 475	5, 2	30. 3	134. 7	4.9	2,4
days	14	4.1	55.8	4, 952	5, 2	49. 8	354	4, 019, 329	5.7	36, 0	143. 4	5.7	2,3
50 and under 160 days.	18	5.3	61. 1	3, 431	3.6	53, 4	191	2, 632, 180	3.7	39. 7	154, 3		1
60 and under 170		.,	21.		-				331		5		
70 and under 180	22	-		7, 333	Jan 13	61. 1	333	5, 803, 114	8, 3	48. 0	165. 1	4.8	4,0
days	12	3. 6	71. 2	3, 096	3. 2	64. 3	258	2, 160, 660	3. 5	51.5	173. 3	4.6	1,7
days	15	4. 4	75. 6	5, 586	5. 8	70.1	372	5, 601, 797	8.0	59. 5	184. 0	5. 4	3,4
90 and under 200 days	21	6.2	81.8	6, 697	7.0	77.1	319	7, 010, 961	10.0	69. 5	194, 2		1
00 and under 210				100	1	1103		1171.3171.717	1.20	1	11-1317		
days	17	5. 0	80. 8	6, 566	0. 9	84. 0	380	6, 229, 817	8. 9	78.4	204, 6	4.6	4,
days20 and under 230	10	3. 0	89. 8	3, 713	3.9	87. 9	371	3, 053, 392	4.3	82.7	213. 4	3.9	2,6
days	10	3.0	92, 8	4, 917	5. 1	93. 0	492	5, 154, 493	7.3	90.0	223, 9	4.7	3,0
30 and under 240 days	10	3.0	95. 8	3, 261	3.4	96. 4	326	3, 698, 267	5.3	95, 3	235, 0	4.8	91
40 and under 250	1177	11 8	Hell	Lino	0.000	11.79	OFFICE		118	1116	. 751		1
days	5	1. 5	97.3	1, 108	1.2	97. 6	222	856, 879	1.2	96, 5	244. 8	3. 2	1
days	2	. 6	97. 9	273	. 3	97. 9	137	341, 233	. 5	97.0	257. 0	4.9	1
days	6		99. 7 100. 0	1, 602 420		99. 6 100. 0		1, 610, 842 474, 916		99. 3 100. 0	264. 5 282. 0		
Total	1107	14 11	- 20	95, 499	-	2 4 4 5	1 1 2 1	70, 328, 372	200	-	148, 8		47,

By looking at the cumulative percentage column of this table, it will be seen that more than 10 per cent of the shipping mines operated less than 60 days; that 5.7 per cent operated less than 40 days; that 51.7 per cent of the mines of Illinois operated less than the average number of days as shown in the Illinois coal report (139 days); that these mines operating less than the average employed 44.6 per cent of the employees, and produced 30.3 per cent of the total output.

The average number of days worked as shown in this table is weighted average, weighted by the number of employees, and not a simple arithmetical average of mines reporting as shown in the Illinois report. The weighted average days worked is nearer 148.8 than 139. Even this weighted average is open to some objection because of the faulty way of reporting the number of employees, as

will be shown.

### Output

THE relationship between operating days and tons produced is shown in the following table of classification by output:

TABLE 2.—NUMBER AND PER CENT OF EMPLOYEES AND OF TONS PRODUCED IN ILLINOIS COAL MINES, CLASSIFIED BY OUTPUT

Num. berd

men neces sary at 300 days per year

> 2, 447 2, 367 1, 76

4, 00 1, 78

3, 428 4, 336 4, 478 2, 641 3, 676 2, 556

47, 371

rage that

is a not a the 48.8 ction

	10011	Mines			Empl	oyees	901	Prod	uction	e.d	in b=00		Num- ber of
Classified production (tons)	Num- ber	Percent	Cu- mu- la- tive per cent	Num- ber	Percent	mu- la- tive per	Average num- ber per mine	Amount (tons)	Percent	Cu- mu- la- tive per cent	Average number of days worked (weight- ed)	tion	men neces- sary at 300
nder 10,000	20	5. 9	5.9	834	0.9	0.9	42	112, 236	0. 2	0, 2	45. 6	2.9	127
1000 to 24,999	36						68	639, 084	.9	1.1	74. 2	3.5	603
1000 to 49,999	34	10. 1						1, 240, 854					
,000 to 99,999	57	16. 9		10, 690				4, 216, 960					
0,000 to 149,999	47							5, 758, 165					
0,000 to 199,999	22	6.5						3, 873, 391					
0,000 to 249,999 0,000 to 299,999	-22 16	6.5											
0,000 to 399,999	28	8.3		12, 802				9, 860, 844					
0,000 to 499,999	17	5. 0		8, 813									
0,000 to 599,999	16												
0,000 to 699,999	5	1. 5						3, 191, 905					
0.000 to 799,999	57	2. 1			5.4	89. 9							3, 417
0.000 to 899,999	5	1.5						4, 274, 335					
0,000 and over	6	1.8				100. 0				100. 0	188. 7		
Total	338	100. 0		95, 499	100. 0		283	70, 328, 372	100. 0	10	148. 8	4.9	47, 371

It will be seen from the above table that 57.5 per cent of the mines ach produced less than 150,000 tons; that these employed 28.6 per ent of the employees and produced but 17.1 per cent of the coal; and hat it took 83.5 per cent of the mines, employing 61.9 per cent of the workmen, to produce half, or slightly less than half, of the coal roduced.

The following table shows the number of mines which, operating ated all time, or 300 days a year, could produce all the coal that all of that he mines in the State did produce.

that able 3.—NUMBER OF MINES AND NUMBER OF EMPLOYEES THAT, WORKING 300 DAYS IN THE YEAR, WOULD BE REQUIRED TO PRODUCE AN AMOUNT OF COAL EQUAL TO THAT PRODUCED BY 338 MINES IN THE YEAR 1924

measpin-nighten	1110	Mines	ma reg	En	ploye	es	Pro-	Possible total pro- duction on 300-day basis	Cumu- lative total pro- duction
Classified production of 1924	Num- ber	Percent	Cu- mu- la- tive per cent	Num- ber	Per cent	Cu- mu- la- tive per cent	duc- tion per man per day (tons)		
,000 tons and over	6 5	1.8	1.8	6,021	6.3	6.3	5. 5	9, 934, 650	9, 934, 650
,000 and under 900,000 tons	5 7	1.5	3.3	3, 635	3.8	10. 1	6.0	6, 543, 000	16, 477, 650
,000 and under 800,000 tons	5	2.1	6.9	5, 120 3, 042	5.4	15. 5	5. 1	7, 833, 600 4, 471, 740	24, 311, 250 28, 782, 990
.000 and under 600,000 tons	16	4.7	11.6	9,773	10. 2	28. 9	5. 6	16, 418, 640	45, 201, 630
.000 and under 500,000 tons	17 28	5. 0 8. 3	16.6	8, 813 12, 802	9, 2	38. 1 51. 5	5.1	12, 955, 110 19, 587, 060	58, 156, 740 77, 743, 800
300 and ander 400,000 tons	20	0. 0	24. 0	14, 004	10. 1	01. 0	0. 1	10, 001, 000	11, 120, 000
Total	84	24. 9		49, 206	51. 5				

It will be noted that the mines are given the capacity indicated by their output in 1924. That is to say, upon the assumption that the six mines producing 900,000 tons and over in 1924 could not have produced any more coal than they did in the days upon which they operated, that the 16 mines that produced between 500,000 and 600,000 tons each could not have produced any more coal than they did, etc., we have in this table simply increased the production to the 300-day basis, using the 1924 rate of production per man per day, with the remarkable result that the table shows that 84 of the 338 shipping mines of Illinois, or 24.9 per cent of the mines, employ. ing 49,206 workmen, or 51.5 per cent of the total employed, could have produced 77,743,800 tons of coal, which is 7,000,000 tons more than all of the shipping mines did produce, and 5,000,000 tons more than both shipping and local mines produced in 1924. means that 254 of the 338 principal mines in the State represent an unnecessary expenditure of money so far as the capital invested in the mines themselves is concerned; that they simply prevent an adequate number of mines from producing an adequate amount of coal on a reasonably efficient basis; that the railroads must distribute cars to 254 unnecessary mines in a single State, with all the capital invested in cars that this implies. It means that the industry wastes not only the money actually invested but the time and energy of the officials and clerical help that must be on hand the year round,

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even when not producing unnecessary coal.

Another problem in this industry, whose principal product is problems, enters fully into the Illinois situation. The railroad mine and, more recently, the "consumers' mines" of all kinds must be reckoned with. For many years the railroads have owned and operated their own mines or contracted for a large percentage of the output of mines which were not directly owned, and in the more recent years the iron and steel interests have secured control of mines from which they supply themselves with coal. Other industries are rapidly doing the same thing. To the extent that this is true, here is a market from which the operator of a commercial coal mine is as completely shut out as though no coal were being consumed. The railroads are the greatest consumers of bituminous coal; the iron and steel industry is probably the next greatest, and yet the extent to which these two principal consumers replenish their stocks from mines uncontrolled or uninfluenced by them is very small. Of the coal produced in the shipping mines of Illinois in 1924, 22,402,-214 tons, or 31.9 per cent, went to railroad companies direct from the mine, and if we take the mines that operated the greatest number of days we find their output going exclusively to railroads. only mine operating 280 days and over was a 100 per cent railroad mine. Below is a table covering the 27 Illinois mines that operated 200 days or more, showing their total production and the tons sold to railroad companies or loaded onto the railroad locomotives, which amounts to the same thing. It will be seen that 73.8 per cent of the output of these mines, as against 31.9 per cent of the total coal produced in all the shipping mines of the State, went to the railroads.

TABLE 4.—PER CENT OF TOTAL PRODUCTION SOLD TO RAILROADS BY THE 27 MINES OPERATING 200 DAYS AND OVER

and the state of t	Num-	Production					
Days of operation	ber of em- ploy- ees	Tons mined	Tons sold to railroads	Per cent sold to railroads			
280 days and over	420	474, 916	474, 916	100.0			
260 and under 270 days	48	120, 000	120,000	100.0			
200 and made	51	105, 000	105, 000	100. 0			
	480	437, 678	163, 029	37. 2			
	559	604, 992	391, 744	64. 8			
250 and under 260 days	143	162, 249	160, 030	98.			
	130	178, 984	93, 281	52.			
240 and under 250 days	163	125, 371	61, 635	49.			
	182	171, 082	94, 472	55. 2			
	399	213, 923	197, 694	92, 4			
230 and under 240 days	52	163, 303	76, 099	46. 6			
	306	277, 737	116, 270	41.1			
	488	580, 454	455, 015	78.			
The second secon	792	728, 986	424, 212	58.			
220 and under 230 days	578	295, 069	280, 230	95. 6			
	406	447, 396	208, 037	46.			
210 and under 220 days	217	285, 523	251, 071	87.5			
And the second of the second o	496	449, 748	342, 687	76. :			
the state of the second	594	412, 959	198, 703	48.			
THE R. LEWIS CO., LANSING, MICH. LAN	418	461, 188	363, 822	78.			
	816	730, 118	709, 161	97.			
	106	66, 010	42, 550	64.			
200 and under 210 days	184	114, 353	54, 322	47.			
	72	130, 297	80, 991	62.			
	565	221, 870	192, 014	86.			
	262 571	305, 348 666, 055	290, 242 643, 576	95. 96.			
Total	9, 498	8, 930, 609	6, 590, 803	73.4			

The advantage which a consumer's mine has over a strictly commercial mine is readily understood. When prices are low the consumer operates the mine only long enough to supply himself with coal, and he keeps his stock of coal in the ground unmined and unwasted and treats his coal mine exactly as he would a department of his steel plant or of his railroad. He reduces the number of his employees and cuts down the production of the mine to the exact tonnage that he needs. Hence he loses nothing, or practically nothing, by price slumps. However, when prices go up he can take on more men and produce commercial coal as long as it pays him to do so. On the other hand, the commercial mine must sell coal or close down. As consumers' mines increase, either in number or capacity, the excluded markets increase and the outlet for truly commercial coal is restricted.

When we say that we use 500,000,000 tons of coal in the United States we are creating a false impression, if by that statement we convey the idea that there is a market for any such amount of coal. Considerably more than half of this consumption is not "demand" in the market sense of the word, but is a demand that is already supplied by the very terms of the ownership and operation of the production. Perhaps if this phase of the situation were better understood there would not be such a continuous increase in the

number of coal mines.

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TAKING up now the labor statistics of coal mines, we find the situation to be even worse. The occupational classification of 95,499 persons employed in shipping-coal mines in Illinois, as shown by the 1924 report, is as follows:

nderground: Cagers	576	Blacksmiths	Number
		Diacksimidis	516
Drivers		Blacksmiths' helpers	246
Boss drivers	184	Carpenters	457
Electricians and helpers	859	Hoisting engineers	607
Mine examiners	592	Other engineers	178
Mine managers	702	Firemen	664
Machine miners	37, 601	Top foremen	263
Pick miners		Machinists and helpers	270
Motormen and assistants_	3, 088	Superintendents	237
Machine helpers	2, 464	Stablemen, top	129
Machine runners	2, 695	Watchmen	158
Pumpmen and pipemen	366	Weighmen	370
Shot firers		Office employees at mine	628
Shot firers' runners	75	Others on surface	4, 723
Spraggers	546	a Hart the restraction many	
Stablemen	172	Total on surface	9,637
Timbermen	1,890		
Trackmen and brattice-	101 1100	Grand total	95, 499
men	3, 450	w managed and the trace	,
Trappers	971	of which the on hand there is	
Others underground	4, 726	ment sused	

These figures are secured by requesting each company in the State to divide the total number in each occupation on all pay rolls by the number of pay rolls. It will be readily seen that by this method the labor turnover is duplicated over and over again.

As shown in Table 1, 5.7 per cent of the mines in Illinois worked less than 40 days, and these mines employed or had on their pay roll at some time during the 40 days 4.1 per cent of the average total number alleged to have been employed. It is fairly safe to assume that these miners go from the mines that are not working to the mines

that are in operation and are thus counted again and again.

To the average number employed in the shipping mines we must add the 4,266 employees of the local mines to arrive at the total shown in the report—99,765 employees for all mines said to have been "working an average of 140 days." It is apparent that this figure not only includes the ordinary labor turnover that occurs in the very best of mines but is the turnover plus the floating from mine to mine in cases of shutdown. In other words, there is actually no such number of individuals employed in the bituminous coal industry of Illinois, and it is impossible to determine from these figures the exact number of persons so employed. And perhaps here is the place to say that the figures from the coal fields of Illinois published by the department of mines and minerals in that State are the best obtainable from any State or from any source.

As stated above, there is no actual record of men at work, so far as tonnage men or actual coal miners are concerned. The only record is that of brass checks attached to pit cars, and these give no indica-

<sup>&</sup>lt;sup>2</sup> The United Mine Workers' total membership in Illinois is approximately 90,000.

tion as to the time actually spent by the miner at the face of the working. And since the days in operation reported mean simply the tipple time, and as the tipple is only one part of a mine and has nothing to do with the actual production of coal, we find ourselves in a sea of figures with no statistics in sight.

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### Conclusion

THE only figure to be found in all the mass of numerals connected with the bituminous coal industry that is clear cut and means what it says without equivocation or evasion is the number of tons of coal produced. In an industry admittedly sick, and sick almost unto death, with accurate statistics as the only means by which the disease can be diagnosed or any intelligent remedy applied, it is exceedingly unfortunate that the responsible managers of the industry have not seen their way clear to furnish intelligent statistical data for the industry.

If the records could be kept to show the number of man-hours of work performed at the face of the working—that is to say, in getting the coal, which is the real point to the industry, instead of the number of days upon which the tipple works, which has nothing to do with the industry except to perform one minor point of loading the coal into railroad cars; if we had an accurate record of the number of men required to operate the mine, eliminating the number put upon the pay roll to increase the car rating, which is purely a railroad scheme and has nothing to do with coal mining; if the actual coal production could be separated from the work of extending the entries and driveways farther into the coal seams, which is a capital outlay and not a current production cost; if, in addition to this, accurate records of labor turnover could show the real extent of the floating and drifting of the men—then a picture might be drawn by competent statisticians that would be of untold value to the industry and to the public

It is not to be wondered at that coal operators grow weary of furnishing figures which get nobody anywhere and only result in such absurd statements as those sometimes made, showing an impossible percentage of the workers who work but a few days in the year, utterly ignoring the element of labor turnover and drifting from mine to mine, and which simply mean that there was an enormous number of persons whose names were on the pay roll of any given company for a very short time, with nothing to indicate on how many other new rolls they figured during the year.

Another form of coal figures that have no relation to essential facts has been those showing fatal accidents in terms of tons of coal produced. Here again the Illinois report is far better than most of our sources of information, as it does give the fatalities per thousand employees, though without regard to the length of time the thousand persons were employed. The United States Bureau of Mines, realizing that it is the man who gets hurt and not the coal, has recently arranged with certain coal companies to report their accidents in relation to the actual one-man hours employed in the mine. The bureau has not as yet published these returns.

<sup>1</sup> See MONTHLY LABOU REVIEW for February, 1921, p. 4.

# Trend of Occupations in the Population

By M. Z. Jones, of the United States Bureau of Labor Statistics

FOR a great many years the idea has prevailed among a large number of people that the increase in the skilled trades in the United States is not keeping pace with the increase in population. This primarily includes the trades which were and still are hand trades, but it is further contended that the modern automatic machine has been developed to a point where it is replacing to a large extent the skilled craftsman of 50 or 75 years ago. It is true that some of the skilled trades of 1850 either no longer exist or are fast disappearing, due to the changes in the customs and desires of the people, as well as to the introduction of machinery. Others, however, have expanded and new trades have arisen in many cases to take the place of those no longer needed. Also a large part of the machinery used in manufacturing establishments is not entirely automatic and requires operators who, in many cases, are more skilled than were the hand employees whom the machines replaced.

The information upon which the present study is based was compiled from the decennial reports of the occupational census of all persons 10 years of age and over in the United States. The purpose has been to assemble all the reasonably comparable data available covering significant occupations, both skilled and unskilled, and to

present the figures in sufficient detail for further analysis.

The first attempt to classify the people of the United States by occupations was made in 1850. While some occupational data had been accumulated for years as far back as 1820, it had quite generally been thought that not much could be made of statistics of this sort and consequently little effort was made to use them. Growing interest in social and industrial problems, however, brought about the classification of 1850. While some mistakes were made in this first attempt, as is usually the case in pioneer work of any sort, the importance of a reliable occupational census was demonstrated. Unfortunately the occupations of males alone were published in 1850 and apparently no inquiry was made as to the occupations of the female members of the family. The number of male and female wage earners was shown separately, however, in the manufacturing census of 1850. These occupational statistics have since become an important part of each population census and are available for each 10-year period from 1850 to 1920. The occupations of women were reported, as well as those of the men, for 1860 and each succeeding census.

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Before entering into any discussion of the material presented, attention must be called to the fact that many of the trades or occupations of the present day are not strictly comparable with the same trade or occupation in 1850. New tools, new methods, different products, all tend to change the trade as well as the number employed in it. For example, the carpenter of the present day uses many tools similar to those which were in use in 1850, but he no longer makes his own window frames, doors, and door sash, etc. These are now almost all made in factories. For the purposes of this study, however, occupations of the same name have been assumed to be comparable. Also, it should be stated that these figures should be accepted only as representative of the general trend of the occupations and not as absolutely

accurate measurements of the number of people employed in any occupation. The difficulties of enumeration are greater for occupation statistics than for almost any other statistics gathered by the Census Office, part of this being due to the great complexity of modern industrial establishments and processes. Also it must be remembered that these statistics are taken at 10-year intervals and many changes take place between censuses. The relative importance of occupations is continually changing, and unfortunately the occupations have not received the same treatment in each decennial census report. Different occupational terms and combinations thereof are used, and some occupations, which are shown separately for a few years, have drifted into the "all other" group in other years, rendering comparison impossible. Another thing which should be remembered is that the census for any year is taken as of one day in that year and the same date has not always been used. During the years 1850 to 1900 it was the custom to take the census as of June 1, but in 1910 April 15 was chosen. The date of January 1 was used These changes in census dates affect the comparisons to some extent in the more or less seasonal occupations.

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ed, or the ent red ols his ost pa-, it reelv The occupations for which figures are presented below have been arranged under seven industrial groups. Figures are shown for each occupation for each census period for which fairly comparable information is available. It was not possible to include all of the occupations reported by the census, as in many cases they are of no particular significance in any year and also many of them could not be traced on a comparable basis through the various reports. The occupational terms used in the table are mostly general ones designed to cover the material for all years, although they may not be the exact terms used in any census report. Wherever necessary, combinations have been made in order to maintain the comparison from year to year.

While employees in most of the trades have increased in actual numbers from one census period to another, when compared with the changes in population many of them show relative decreases. The population increased from 23,191,876 in 1850 to 105,710,620 in 1920, and it is only by considering the changes in the occupations with relation to this increase in population that the real significance of the changes become apparent. The table below shows the number of employees per million of population.

NUMBER OF EMPLOYEES PER MILLION OF POPULATION, ENGAGED IN VARIOUS TRADES AND OCCUPATIONS, AS SHOWN BY THE OCCUPATIONAL CENSUS FOR EACH 10-YEAR PERIOD, 1850 TO 1920

	Number of workers per million of population in—											
Occupation	1850	1860	1870	1880	1890	1900	1910	1920				
Agriculture, forestry, and animal husbandry	70	inscend	hatros	geliggii Maksia		0.00	yrt.,194	11/902/2				
Agricultural laborers Farmers and planters Fishermen and oystermen	103, 097 486	79, 809	77, 320	84, 318	83, 904	74, 606	65, 047 64, 231 742	57, 550				
Gardeners, nurserymen, florists, vine growers, etc. Lumbermen, raftsmen, wood choppers, etc. Stock raisers, drovers, herders, etc.	366 491 105	697 614	872 651	1, 117 865		1, 406 1, 422	3, 015	2, 955 1, 826				
Extraction of minerals	1 11	A POR	PULL TO	aurai ya Sanahya	GASSION	व्यक्तामा सम्बद्धाः	MARKET H	Silv				
Quarry operatives Miners, coal and metalliferous Oil and gas well operatives	83 3, 338	131 4, 699	352 3, 945 99		598 5, 554 145	455 6, 959 237		427 8, 351 809				

NUMBER OF EMPLOYEES PER MILLION OF POPULATION, ENGAGED IN VARIOUS TRADES AND OCCUPATIONS, AS SHOWN BY THE OCCUPATIONAL CENSUS FOR EACH 10-YEAR PERIOD, 1850 TO 1920—Continued

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o stire due to the great complexity of	Nun	aber of	worke	rs per	million	of pop	ulation	in-
Occupation	1850	1860	1870	1880	1890	1900	1910	1920
Manufacturing and mechanical industries	N ES		18 P	9111	3.0112	1,770		
SOUNDED FOR STATE OF A BANGO TO TAKE TO THE SOUND THAT	00	1 700	450	801	1 010	1 070		
ApprenticesBakers		1,760		881	1, 310		1, 294	,
Blacksmiths	1 4, 308							
Boiler makers	80	105	100	3, 444	3, 262 339			
Brick and stone masons	1 000	(2, 011 417	2, 327					
Plasterers	2,733	417	612					36
Boot and shoe workers	5, 644	5, 348	4, 438	3, 870	3, 392	2,741	2,836	2.87
Cabinetmakers	1,611	1, 131					456	43
Carpenters and joiners	8, 509	7, 992	8, 937	8, 440				8, 39
Coopers	1, 884	1, 387	1,084	980	754	1		18
Electricians	05	90	110		190	667	2 1, 307	
EngraversGlassworks operatives	95 140			358	132 545		152	
Harness and saddle workers	982			797	691		892 246	
Iron and steel workers, including blast furnace,	70.1811	0.42	001	- 17	001		240	18
rolling-mill, foundry, etc., employees	528	800	1, 215	2, 284	3, 355	3, 919	8, 052	8.00
Laborers, general	39, 229	30, 827	26, 756	37,069	30, 396	30, 069		
Machinists	1,039	1, 394	1, 420	2,016	2,813	3, 508	5, 016	
Marble and stone cutters.	607					717	389	
Millers and mill workers (grain, flour, and feed)	1, 190			1,066			396	
Painters, glaziers, and varnishers			2, 208					
Paper and pulp mill operatives	128				442		737	7
Paper hangers	112	102		2000			278	0.4
UpholsterersPattern and model makers	63						220 256	-
Plumbers, was and steam fitters					899			
Potters and pottery workers	179							27
Printers, compositors, pressmen, lithographers,	orrows.	120	101		-		211	21
bookbinders, etc	788	944	1, 285	1,726	2, 260	2, 394	2, 552	2, 33
Roofers and slaters	19	62	71	80	112	118		
Rubber factory operatives	7	1.5		127	257		477	1,30
Steam engineers and firemen (stationary)	510	(9)	888	1, 588	2, 220	2,941	3,722	3, 65
Structural-iron workers, building							124	17
Tailors, tailoresses, seamstresses, dressmakers,	(1)	0 045	0 505		10 004	10 000	10 P10	0.04
milliners, etc.	(4)			8, 357			10, 712	
Fanners, curriers, and tannery workers				505 6, 015		7, 087	591 8, 162	
Pinsmiths and tinware workers and coppersmiths.	582			920				61.05
Pobacco and cigar factory operatives	467	681		1, 536				
Wagon and coach makers	673	618		995			376	
Wheelwrights	1,323	1,040		311	204		41	
Transportation	1				5:502			
Chauffeurs	******						498	2, 69
Draymen, backmen, teamsters, drivers, etc	1, 757	2, 468	3, 132	3, 541	5, 854	7,092	4,826	3, 97
Conductors, brakemen, and other railroad employ-	2000				1 6 080	6, 714	11.378	10.91
ees (not elerks)	208	1, 163	3, 995	4, 707	{ 6,080 1,104	1, 400	1, 877	1, 90
Locomotive engineers and firemen	11111	DISTL	13 17 (	1.713	0.81	2( 1)		
employees (not clerks)	1500 40	459	139	238	593	920	1, 667	1 63
Sailors and deck hands	3.044	2 142	1 470	1, 198	888			51
MINIO MINI WOOD MANAGEMENT OF THE PROPERTY OF	0,011	-,	1, 210	1, 100	000	100	000	
Professional service	STORY.	110 70	· VIII	Trivia	40.00	San V	alder	
Architects	26							
Chemists, assayers, and metallurgists	20			30			177	
Clergymen	1, 157							
Photographers and daguerreotypists	100			199			346	32
Awyers, judges, and justices	126 1, 032			246	278 1, 424		435	
Physicians and surgeons	1, 757			1, 279 1, 708			1, 247 1, 643	
Demestic and narround associate	C. Fair	6 14	11	in photo	10 9 to D	170		
Domestic and personal service	100	1 55	700	00	N DO			
Barbers, hairdressers, and manicurists	259	354		894		1, 725		
servants, housekeepers, stewards, stewardesses, etc.	(4)	18, 696	20, 337	21, 492	23, 111	22, 579	20, 113	10, 28
Clerical occupations	TO STATE OF	15 70	111	200	TURN	BEAR		
Clerks, stenographers, typewriters, bookkeepers,	)			1	W. TISE	model	Legal	
accountants, etc	4. 369	5, 933	$\{1,926\}$	2, 999 7, 691	16, 117	20, 793	<b>[16,</b> 569	26, 69
Clerks and salesmen and saleswomen in stores	7,000	0,000	16, 139	7, 691	1	20, 100	(13, 748	14, 56
one and smeamen and smeawoulen in Stores	100	3337	78,20	CARRANT	02,744	CONTR	il.	1

<sup>1</sup> Includes a few whitesmiths.
2 Estimated by Bureau of Census in 1920.
3 Reported under another designation.
4 Not shown, as males only were reported.
5 Including spinners, weavers, warpers, loom fixers, securers, bleachers, dyers, knitters, etc., of cotton, worsted, silk, linen, and hosiery.
6 Includes sheet-metal workers.

The table shows that building trades have undergone a considerable change since 1850. This is not surprising when we stop to think how vastly different the buildings of to-day are from those of 75 years ago. In the early days lumber was the easiest as well as the cheapest material to get with which to build, and as a result most buildings were made of wood. To-day, however, almost all of our large buildings are constructed with brick, concrete, steel, and, to some extent, stone, with probably an inside finish of wood. These materials are also growing in favor among home builders, especially in the larger cities. The use of steel for framing has accounted for the new trade of structural-iron worker. This was shown separately for the first time in the census return for 1910 when 124 workers per million of population were reported in this trade. They had increased

to 178 per million in 1920.

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312 204

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285

565

The bathroom, a luxury enjoyed by few families in 1850, has become almost a necessity. Only 81 plumbers per million of population were employed in 1850, but almost 25 times that relative number were needed in 1920. Electric lights were unknown in 1850, while now practically all of the large buildings and a large proportion of homes are equipped with electricity for lighting. Thus 2,014 electricians per million of population were reported in 1920 as compared with 667 in 1900, the first year for which a separate report was made for them. Most of the other trades, when measured by the change in population, increased rapidly from 1850 to about 1890 or 1900 and then began to fall off, in some cases, even more rapidly. Notwithstanding the changes in building construction, however, carpenters and joiners have increased in almost the same proportion as the population during the 70-year period but brick and stone masons, plasterers, and marble and stone cutters have decreased perceptibly when compared with population. Brick and stone masons and plasterers combined numbered 2,733 per million in 1850 as compared with 2,525 masons and 620 plasterers in 1890 but decreased to 1,314 masons and 362 plasterers in 1920. Marble and stone cutters are only about one-fifth as numerous as they were in 1890 and one-third as numerous as in 1850. Stone is now, to a large extent, cut at the quarry, by machinery, only the finer work being done by hand. The result of the introduction of these machines was first noticeable in the census returns for 1910. The huge increase in quarry operatives reported for that year, however, would seem to indicate that probably some marble and stone cutters have been included under that head for that year. Painters, glaziers, and varnishers increased steadily from 1,215 per million in 1850 to 3,635 in 1910 but decreased to 3,017 in 1920. Through the period there has been an increase in factory painting and varnishing and most of the glazing is now done at the factory. Commercially upholstered furniture was included among the furnishings of but a few homes in 1850, and most of the families that did indulge in the luxury of wall paper did not incur the expense of a paper hanger. The two trades combined—upholsterers and paper hangers—numbered only 112 employees per million of population in 1850. As the homemade furniture of the early years began to be replaced with the new factorymade upholstered product, the trade of upholsterer became more important. Wall paper also became less and less of a luxury and the custom of employing professional paper hangers became more general. By 1900 more than 400 upholsterers per million of population were employed, and paper hangers had increased to 287 per million. Both trades have declined somewhat since then, there being only 280 upholsterers and 177 paper hangers per million of

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population in 1920.

The principal woodworking shop crafts have decreased amazingly since 1850. Coach and wagon makers, an important trade at that time, have decreased from 673 to 182 factory operatives per million of population in 1920. Wheelwrights have almost faded from the picture. Only 35 per million were employed in 1920 as compared with 1,323 in 1850. Wheels are no longer made by hand as in the early days, machines having replaced this trade almost entirely. The identity of some wheelwrights employed in factories has probably been lost in the group of factory operatives, but this would not materially affect the number shown. The coopers' trade, a very necessary one in 1850, is also fast disappearing. Steel drums, pails, sacks, and other containers have been substituted for the old wooden barrel.

The decrease of cabinetmakers from 1,611 per million of population in 1850 to 431 in 1920 is due more to the change to the factory system of manufacturing than to the introduction of machinery. More desks, tables, chairs, etc., are probably made to-day than ever before, but most of them are now made in the factory. Owing to the occupational classification used for the census, it was impossible to include these factory operatives with the hand cabinetmakers. Thus, the decrease shown in this occupation represents the decrease of hand cabinetmakers and not the decrease in the trade generally.

In the metal-working trades, machinists have increased to more than seven-fold during the 70 years—1,039 per million of population to 7,586-more than half of this increase occurring in 1910 and 1920, the automobile era. Boiler makers and pattern and model makers also have increased. Blacksmiths, however, have decreased greatly. Back in 1850 the blacksmith was a very important individual in any community. He made all the metal parts of the wagons, except the axle thimble, welded the broken parts of almost any kind of machinery or made new parts, made his own horseshoes and horseshoe nails, and many other things. Now new parts for most machines may be obtained for less than it would cost to have the blacksmith repair the old ones. The automobile and motor truck are crowding the horse-drawn wagons off the roads, literally as well as figuratively, and those that are used are made in factories. There is little left for the blacksmith to do, and as a consequence he is rapidly disappearing even from the rural communities.

The workers in automobile factories were shown separately under "iron and steel industries" in the censuses for 1910 and 1920. While the automobile is made mainly of iron and steel, yet wood, leather, and many other things also enter into its manufacture. For this reason these figures have not been included in this study as they

represent only a part of the industry.

The printing trades have increased slightly less than two-fold in the last 75 years. This increase seems at first to be too small when we consider the number of newspapers, magazines, and periodicals printed to-day as compared with 1850, but machinery is the answer.

custom of employing professional pares illa

Stationary steam engineers and firemen have grown from 510 per million of population in 1850 to 3,651 in 1920. All we need to do is to look around and see the thousand and one uses to which the steam engine is now put in order to understand this increase. Locomotive engineers and firemen were shown separately for the first time in 1890 when 1,104 per million of population were employed. This number had increased to 1,904 in 1920.

The increase in bakers is due largely to the substitution of "store"

bread for the home-made variety.

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The effect of the introduction of machinery into our manufacturing establishments is clearly illustrated in the occupation of boot and shoe workers. The boot and shoe industry has grown by leaps and bounds since 1850, although the number of workers per million of population has decreased steadily. Back in the early days a boot and shoe maker made a pair of shoes completely. He did his own cutting, lasting, sewing, pegging—in other words, actually began and finished the shoes. At the present time practically all shoes are made in the factory. Men operating high-grade machines do the lasting, sewing, etc. In some factories a machine does even the cutting. One man seldom performs more than one operation on a pair of shoes.

The 982 harness and saddle makers per million of population in 1850 had been reduced to 189 factory operatives in 1920. The advent of the automobile and motor truck has, of course, had a great

deal to do with this reduction.

The tremendous increase in the use of machinery, steel frames for building, steel rails, etc., is reflected to a large extent in the increase of iron and steel workers. Beginning with 528 blast furnace and foundry employees per million of population in 1850, the industry has increased to 8,006 employees per million in blast furnaces, rolling

mills, foundries, etc., in 1920.

Textile workers increased from 1,925 spinners and weavers per million of population in 1850 to 9,097 factory operatives in 1920. Spinning and weaving are still the most important occupations in the textile industry, even though the cloth is made in factories, but the operation of the modern looms and spindles is so different from the old hand processes of 1850 as to make spinning and weaving almost

entirely new occupations.

There were more than twice as many draymen, hackmen, teamsters, etc., in 1920 per million of population as in 1850, although the relative decrease since 1900 has been tremendous. Here again the effect of the introduction of the automobile and motor truck is apparent. The new occupation of chauffeur sprang into being to take the place of a large number of teamsters and drivers. This occupation was reported separately for the first time in 1910 and increased from almost 500 per million of population in that year to 2,697 in 1920.

Sailors and deck hands have grown fewer and fewer with the decrease in American ships. Our shipping industry was quite important in 1850 and 3,044 sailors per million of population were employed. By 1920 this number had shrunk to only 519 per million.

Chemists increased more than 15-fold in relation to population during the 70-year period. There were relatively 8 times as many photographers in 1920 as in 1850. The relation between clergymen and population has remained fairly constant, as is also the case with

lawyers and judges, but the number of physicians and surgeons was greater in 1850 per million of population than at any time since and was less in 1920 than in any other census year of the period covered. The ever-increasing amount of training necessary for the doctor's profession is largely responsible. Dentists have increased from 126 per million of population in 1850 to 531 in 1920.

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Barbers, hairdressers, and manicurists have increased relatively almost seven-fold during the period covered, but domestic servants decreased considerably. During the war large numbers of domestics left their former employers for more congenial employment at better wages, and when the war closed they continued in other lines of

employment.

It was not possible to separate clerical employees from clerks and salesmen in stores for all years, but wherever possible the separation has been made. Strictly clerical employees increased a great deal more than clerks (sales people) in stores, but both types have in-

creased enormously.

The changes which have taken place in the occupation of agricultural laborers are better understood when considered in connection with the changes in farmers and planters. The limits of these occupations have not been sufficiently definite in all years to allow for entirely separate consideration. In 1850 no farmer laborers were reported, but it is evident from the large number of farmers and planters shown that no separation was made between the farmer and his helper for that year. Slaves, who performed a large part of the farm labor in the South in 1850 and 1860, were not, of course, This accounts for the large increase in the farm laboring class in 1870. Farmers and planters and agricultural laborers combined were fewer in 1920, per million of population, than in any other census year. The large decrease is more noticeable in the occupation of farm laborers than in that of farmers and planters. During the World War a large part of our fighting forces came from the farm and had not yet returned in 1920. These boys were to a large extent included under the census head of "farm laborers, home farm."

Fishermen and oystermen were only a few more per million of population in 1920 than in 1850 and considerably less than in any

other year of the period.

The expansion of the coal and iron industries increased the number of miners employed from 3,338 per million of population in 1850 to 8,351 in 1920, and the increased amount of gasoline used in automobiles and trucks raised the number of employees of oil and gas wells from 99 per million of population in 1870, the first year in which

separate returns were made for them, to 809 in 1920.

While the occupation census reports from which the above figures were compiled afford the only measure of the proportion of the several occupations in the population, additional data bearing on the subject are available from the census of manufactures which contains, among other things, a report of the average number of wage earners employed in the various industries by the manufacturing establishments of the country. Occupations, however, are not considered. These reports are available by 10-year periods from 1850 to 1899, and by 5-year periods from that time to 1919. The first biennial census was taken in 1921 and is included in the present study.

Before attempting any explanation of the material contained in the table presented below, it should be noted that the manufacturing census is a census of factories, with more attention given to product and investment than to producers. These statistics are compiled primarily for the purpose of showing the absolute and relative magnitude of the various branches of industry covered, and their growth and decline. However, in addition, the number of wage earners is reported, and when the various industries are being studied without regard to occupations, these figures are probably preferable to the occupational statistics. In the occupational census, for example, a carpenter is reported under the head of carpenter regardless of where he may be employed, while in the manufacturing census he would be included only as a wage earner under the industry in which he works.

In presenting the following data compiled from the census of manufactures, only four of the principal industries in the United States have been chosen. Three of them are industries having occupations that are included in the occupational table. case, however, are the figures in this table comparable with those in the other, as the method of collecting data is entirely different. The method of enumeration used in the occupational census is the house-to-house canvass, the occupation of each individual being reported regardless of whether or not he is actually employed at the time of the census. Every person 10 years of age or over engaged in productive labor is included in the occupational information. Reports prepared by manufacturing plants are used for the census of manufactures, and only those persons employed in manufacturing plants with annual products of a value of \$500 or over are included in the data.

The figures shown in the table below, while not comparable with those for the same industries in the occupational data, serve a distinct purpose and have been included in this article as supplemental or additional information and not with the idea of comparison. In the case of boot and shoe workers, for example, in the occupation table the effort has been made to trace the boot and shoe makers from 1850 to 1920. Census designations have changed in the 70-year period and the shoemaker has given way to the shoe-factory operative. In the manufacturing census the wage earners, while mainly operatives engaged in the manufacture of shoes, include a few general occupations in the plants, as those of carpenter, machin-

In date the enumeration of population does not coincide with the manufacturing census. To illustrate, the population count was made as of June 1, 1900, while the manufacturing census covered the year 1899 and gave the average number of wage earners during that year. These two numbers, however, are used together in computing the proportion per million of population, as in point of time they speak for nearly enough the same date. The population count of 1920 was as of January 1. The estimates of population which the census bureau made for the years 1904, 1914, and 1921 have been used, however, as the census of population is taken at 10-year periods only.

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ACTUAL NUMBER OF WAGE EARNERS, AND NUMBER OF WAGE EARNERS PER MILLION OF POPULATION, EMPLOYED IN VARIOUS INDUSTRIES AS SHOWN BY THE CENSUS OF MANUFACTURES, 1850 TO 1921

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Industry	1850	1860	1870	1879	1889	1899	1904	1909	1914	1919	1921
Iron and steel	7 (15. )	101111	v213 1	o su	og ån	(b 20	1212 V	10123	ിര യി	)Li	
Blast furnaces: Wage earners Wage earners per million popula-	20, 448	15, 927	27, 554	1 30,000	33, 415	39, 241	35, 078	38, 429	29, 356	41,660	18,698
tionSteel works and roll- ing mills:	882	507	715	598	531	516	432	418	. 300	394	173
Wage earners Wage earners per million popula-	39, 837	49, 034	91, 651	110, 798	137, 766	183, 249	207, 562	240, 076	248, 716	<b>375, 0</b> 88	235, 515
tion	1,718	1, 559	2, 376	2, 209	2, 189	2, 411	2, 554	2, 610	2, 540	3, 548	2, 184
Textiles	9000	01870	11:00	11:5	X (30)	17:74	Arim	1 50	idays	100	
Cotton goods: Wage earners Wage earners per million popula-	92, 286	122, 028	135, 369	172, 544	218, 876	302, 861	315, 874	378, 882	393, 404	<b>446,</b> 852	425, 835
tion	3, 979	3, 881	3, 511	3, 440	3, 477	3, 985	3, 887	4, 120	4, 017	4, 227	3, 949
Woolen goods: Wage earners Wage earners per	45, 438	50, 419	105, 071	132, 676	154, 271	159, 108	179, 976	202, 029	195, 285	196, 404	190, 948
million popula-	1, 959	1, 603	2, 725	2, 645	2, 451	2, 094	2, 215	2, 197	1, 994	1,858	1,771
Silk goods: Wage earners Wage earners per	1, 723	5, 435	6, 649	31, 337	49, 382	65, 416	79, 601	99, 037	108, 170	<b>126,</b> 782	121,603
million popula-	74	173	172	625	784	861	980	1,077	1, 105	1, 199	1, 12
Hosiery and knit goods: Wage earners Wage earners per	2, 325	10, 532	18, 846	30, 699	59, 774	83, 691	104, 092	Baha	wine		1
million popula- tion	100	335	489	612	950	1, 101	1, 281	1, 406	1, 537	1,632	2 1,500
Poots and shoes 2	3 - 5 CA		300	197322-6	7A (80)	\$ATTA DE	BORRE	11 (2.33.)	CS LIN		
Wage earners per	105, 305	123, 030	138, 662	143, 301	ikte.	odi	ai m	meia	sahn		
million popula- tion Boots and shoes (not	4, 541	3, 913	3, 596	2, 857							
including repairing): Wage earners Wage earners per	(X 2) (A)		23. 37	115, 972	142, 116	151, 231	160, 294	198, 297	206, 088	229, 705	5 196, 58
million popula-	Ado	272.5		2, 312	2, 258	1, 990	1, 972	2, 156	2, 104	2, 173	3 1,82
Motor vehicles 3	000	200				111111111111111111111111111111111111111	25 73		304		
Wage earners Wage earners per mil-				MARCH 1	101-101	(4)	12, 049	75, 721	127, 092 1, 298	1	5 213, 11 6 1, 97

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communed, however, builder comes of population between no sheld the 1909 and by 5-year periods from that wine shelting to must be will be born then below in 1921 and in included in the per-

Not reported separately; this number is an estimate.
 Including cut stock and findings.
 Including bodies and parts.
 No data covering bodies and parts—2,241 wage earners for motor vehicles.

# INDUSTRIAL RELATIONS AND LABOR CONDITIONS

PER

1921

8,698

173

5, 515

2,184

25, 835

3,949

90, 948

1,771

21,603

1,128

62,078

1,503

96, 586

1,823

13, 116

1,976

Labor Passages in the President's Speech to Textile Manufacturers 1

LTHOUGH there has been something of depression in certain branches of industry, a broad view suggests no serious occasion of concern about its outlook. Our imports of cotton fabrics have increased largely in recent years, but our exports have also grown extensively. In 1924 we sold abroad nearly 500,000,000 yards of these goods, or nearly 20 per cent more than in the pre-war years. Considering the widespread demoralization in world markets since the war, such a showing can not reasonably be regarded as discouraging. Probably there is no industry in which conditions affecting international trade and finance are more constantly and definitely reflected than in this one.

There was a measure of overproduction in cotton goods in 1923, from which the industry has not yet entirely recovered. The excessive output of that year left a considerable surplus to be consumed thereafter. But with the gradual improvement of conditions throughout the world, as the war recedes further from us, we are entitled to view with increasing assurance the outlook for business in all directions, including, of course, the great textile industry.

It is scarcely necessary to state the attitude which I desire to see the National Government assume toward all business in general and the textile industry in particular. It is that of sympathy and cooperation for every lawful effort to promote our commercial prosperity and our economic well-being. Modern industry, with its great combinations and great aggregations of both capital and employees, has necessarily brought many new problems for solution in our effort to work out a righteous human relationship. These new conditions made necessary new rules of conduct. Many of these have already become well established and are believed to have been productive of good. But there still exists a considerable area, sometimes designated as a twilight zone, in which the proper standard of action is as vet undetermined.

The Government necessarily looks to the management of industry as mainly responsible for the conduct of industry. There ought to be a most candid understanding between the Government and all industrial effort. Due to the keenness of competition and the urgent desire for success, it is necessary to maintain the most constant watchfulness on the part of the Government to insure the enforcement of the law. But on the part of the management there should likewise be the same vigilance to insure the observance of the We shall never reach an ideal condition in our industrial life until the laws are voluntarily observed by our citizens without the constant and wasteful interposition of Government and court action. You men who are responsible for an industry ought to make unlawful and improper practices in that industry thoroughly unfashionable.

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<sup>&</sup>lt;sup>1</sup>Speech delivered before convention of the National Cotton Manufacturers' Association, Washington, D. C., Apr. 6, 1925. cycly tallant yrove, every tallatry

It may seem expensive to change improper practices, but they will have to be changed in the end, and the sooner it is done the less

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Industry has come thoroughly to recognize its responsibility toward its employees. The Government approves of and shares in that responsibility. It regards the welfare of the wage earners with the utmost solicitude. It has come to be recognized almost universally that only upon justice to the wage earners of the Nation can there be reared any lasting prosperity. America is unwilling to nourish any system under which the rewards of human effort are not equitably distributed among all those engaged in any industry.

The great agencies of the Government are constantly at your disposal to assist and encourage you in your production and defend you in your rights. The Department of Commerce, with its various research bureaus, domestic and foreign agencies, is forever diligent in stimulating your production, advising more efficient methods, discovering new and enlarged markets, and coordinating industrial activity. The Federal Trade Board has been devised for the purpose of safeguarding your rights, protecting you from unfair trade practices, and admonishing and correcting you if you are wrong. The Department of Labor is constantly engaged in preventing and adjusting disputes between employer and employee, to promote justice and avoid the great waste of interrupted operation and production. But I refrain from further specific mention of the many activities of the Government in behalf of the industrial life of the Nation.

I confess that I desire to see our country prosperous. I am aware there can be no prosperity in which the textile industry does not have a generous share. I do not believe there can be any permanent prosperity which does not rest on the everlasting foundation of justice. In the effort of the Government to promote justice, no industry should have anything to fear. In the effort of the Government to provide constructive economy in public expenditure, all industry should concur. In the effort of the Government to encourage harmony in all our domestic relations, every industry should cooperate. In the effort of the Government to secure a firmer faith of the people of the earth in each other, which will establish an indwelling peace in the heart of mankind, all industry should rejoice.

# President Coolidge and the Laboring Man

A NOLD friend of the Secretary of Labor, a delegate to the steel workers' convention, asked the Secretary this question: "Is President Coolidge favorable to the laboring man?" To this the Secretary made the following reply:

Calvin Coolidge is all right for any man who doesn't want to be wrong. Calvin Coolidge is all right for any industry that doesn't want to be wrong. Any organization that insists upon trying to get away with something crooked will have a lot of trouble with the President, and will probably hire a corps of talented literary people to say mean things in print about him.

Take it from me, he expects every man and every group of men to do their duty and obey the law. Within their line of duty and within the law, every man and every group of men, every industry and every union can depend upon President

Coolidge to be with them to the limit in the defense of their rights. Moreover, n the neglect of their duty and in the violation of the law they can depend upon him to use the full power of his position and of the Government to punish or radicate abuses. You will find him a most dependable person on whichever

ide of the moral code you are working.

Every worker and every manufacturer ought to study the President's speech which he delivered before the Convention of the National Cotton Manufacturers' Association on last Monday night, April 6. In it he makes it very clear that while you keep within the law in your efforts to work out a righteous, human relationhip, he will do everything for you that he can, and that when you get outside of he law and practice injustices, he will do everything to you that he can. He ays that the attitude of the Government "is that of sympathy and of cooperation for every lawful effort to promote our commercial prosperity and our economic well-being." He realizes that "modern industry, with its great combinations and the great aggregations of both capital and employees, has necessarily brought many new problems for solution in our effort to work out a righteous human relationship. These new conditions made necessary new rules of conduct. human relationship. These new conditions made necessary new rules of conduct. Many of these have become well established and are believed to have been productive of good. But there still exists a considerable area, sometimes designated s a twilight zone, in which the proper standard of action is as yet undetermined."

"The Government necessarily looks to the management of industry as mainly esponsible for the conduct of industry." In other words, just as in Government ervice he appoints a man to a position, gives him full sweep within the law to do is work, holds him responsible for results, and if he does not get results fires him; o he looks upon those in control of an industry to conduct that industry legally

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While the Government will maintain a constant watchfulness to insure the enforcement of the law, the President sees a far better solution when the forces within an industry shall themselves see to it that not only the laws are lived up to out that the best possible standards of righteous relationship is maintained for all concerned. He tells you that where bad practices have grown up in an industry tis better for you to correct these yourselves than to have it done by the Government, and since you may rest assured that if you do not do it yourselves it will be one by the Government, it is cheaper in the end to do it yourselves at once.

want to quote you this part of his speech:

"\* \* But on the part of the management there should likewise be the ame vigilance to insure the observance of the law. We shall never reach an deal condition in our industrial life until the laws are voluntarily observed by our itizens without the constant and wasteful interposition of Government and court ction. You men who are responsible for an industry ought to make unlawful and improper practices in that industry thoroughly unfashionable. It may seem expensive to change improper practices, but they will have to be changed in the end, and the sooner it is done the less expensive it will be.

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New York, B. W. Huebach (Inc.), 1924,

I think you will realize that the President sees straight through the whole probm, and this has been my observation of him—that no man is quicker to see brough to the core of things no matter how much they may be camouflaged and filded and painted. If your proposition is essentially unlawful and unsound, he es that essence no matter how brilliantly you picture the design to conceal it. On the other hand, if your proposition is essentially legal and sound he sees that ssence and is ready to forgive any uncouthness or lack of tact in your method of resenting it. Born and reared in the hills of Vermont, his keen mind saw through he mountain rocks to the literary, economic, political world beyond. Some eople will tell you that he has been wonderfully favored by accident all along, out let me tell you that accidents do not always boost; in fact, they generally pump, and Calvin Coolidge has stepped over the stones of a Vermont farm into the Presidency—he has not stumbled over them. He is guided in his private and public life by the precepts of the Bible and the Constitution of the United states. So long as you are within these you can depend upon it that he will be with you.

# Experiment of Protocolism in the Women's Garment Trades

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disappearance.

The protocol belongs to such a recent past that it is not necessary to go into the details of its history. It was adopted in 1910, as a means of settling a strike in the New York cloak and suit trade which had been bitterly fought on both sides, which had roused much public interest, and which had brought in, as mediators, some of the most liberal and progressive students of social movements in the whole In one sense, it was only a variation of the collective agreement, by which strikes are often settled, but it had some novel features, and was the manifestation of a new spirit. It secured for the workers certain improvements in wages and hours, but far more important was its assertion of the belief that employers and employees had a common interest in the efficient functioning of the industry, and that their joint action was needed to secure this. It established joint boards of sanitary control to improve health conditions, which were notoriously bad; it set up committees in each shop to deal with minor grievances, and provided for a board of arbitration consisting of one nominee of the unions, one nominee of the manufacturers, and one representative of the public to handle disputes which the grievance committees could not settle. The underlying idea inspiring the "father of protocolism," Louis D. Brandeis, was that there was much need of some method of bringing employer and employee together in a united effort to meet the difficulties and solve the problems of the industry, and that through these joint bodies the contact might be made.

All industrial grievances, in his opinion, were either matters which could be settled by relative concessions on both sides, or they were real difficulties which could be removed only by "industrial invention." In other words, he believed that through mutual contact employers and workers in any industry could learn to solve all their difficulties by the use of brain power, instead of by force.

Naturally, in signing the protocol, neither employers nor employees were actuated by such ideals alone. The workers secured immediate

<sup>1</sup> Levine, Louis: The Women's Garment Workers. New York, B. W. Huebsch (Inc.), 1924, pp. 196-319.

and substantial advantages, while the manufacturers gained freedom from strikes and an approach to uniformity in hours and wages throughout the industry, with a consequent decrease in competition. Nevertheless, both sides were aware of the ideals involved, and the leaders, at least, seemed sincerely desirous of carrying out the agreement in good faith, with a view to realizing its utmost possibilities.

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Starting under such auspices the protocol had for a time an almost meteoric success. Sanitary conditions were improved, subcontracting disappeared, there was a general leveling up of wage rates and earnings, and an improvement of relations between employers and

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\* \* A hitherto unknown sense of regularity spread throughout the trade, as both employers and workers carried their grievances to their chief clerks and from them to the board of grievances. With every session of the board the picture of an industrial court examining disputes, passing judgments, and regulating the life of the shops took on color and vividness.

The experiment attracted wide interest, and trade leaders and students of social and economic developments studied its workings and proclaimed its merits. Other trades and unions took it up. 1911 a protocol agreement was established in the ladies' tailoring trade of New York. In 1912 a number of garment trades in New York, mostly in the hands of women, secured such agreements, bringing some 57,000 additional workers under the new plan, while in Boston about 3,000 workers in the dress and waist trade obtained protocol agreements from their employers. In 1913 the Boston cloak and suit workers established a protocol modeled on the New York lines, and strikes were begun in Philadelphia, Baltimore, and St. Louis to obtain the same kind of agreement.

This year marked the climax of the movement. Friction in the application of the agreements had developed almost from the begin-Perhaps the protocol made too strenuous demands upon the good feeling and intelligence and broad mindedness of both parties. For a generation before its adoption conditions in the garment trades had been chaotic, competition had been unlimited, success had been won by seizing an immediate advantage wherever it could be secured, without consideration of underlying principles or ultimate results, workers and employers alike were individualistic and untrained in cooperative effort, and it was asking a good deal to require them to submit to the orderly processes of the protocol, under which a present, personal gain must often be subordinated to a future general advantage. So difficulties multiplied, the bright hopes of the first period grew dim, and in 1915 the employers in the New York cloak and suit trade served notice that they were unwilling to work longer under the protocol. A compromise was arranged but it proved unsuccessful, and early in 1916 the employers definitely withdrew from the agreement. A lockout and strike followed, which was settled by another collective agreement, from which the whole machinery of the protocol was eliminated. In Boston and Philadelphia the protocols in the cloak and suit trade were abrogated in the same year, and in the weaker trades they were quietly dropped without

# Experiment of Protocolism in the Women's Garment Trades

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Why did the movement, which began so brilliantly, fail so entirely? Doctor Levine finds the answer in the conditions inherent in the trade, and in the mental attitude of the two parties. There were, of course, minor causes. The machinery of the protocol did not sufficiently allow for the friction inevitable in an attempt to work together when neither side had had experience in cooperative methods. Factional struggles between the workers interfered with the success of the plan, and the industrial depression of 1914, making conditions in the trade much worse, played into the hands of its enemies. But these handicaps might have been overcome; more fundamental

causes were responsible for the failure.

The first effects of the protocol, it is pointed out, were advantageous to both workers and employers, and this had much to do with the enthusiasm which prevailed during its early days. The workers gained a leveling up of wages and an improvement in general working conditions; the employers gained the elimination of strikes, which enabled .them to make higher profits without any thoroughgoing improvements in their management or sales methods, and gave them also industrial peace in which to enjoy their gains. But these early improvements were not followed up as had been anticipated. Protocolism, it had been repeatedly declared, meant a decent standard of living for the workers, with a progressive advance in both living and working conditions. Yet, after the first improvements had been made, it was a continuous struggle for the workers to secure any forward steps. This naturally shook their faith in the possibilities of the experiment and diminished their enthusiasm, while, on their side, the employers declared that they were unable to pay the wages or make the improvements which protocolism demanded.

This inability was due, in part, to the industrial depression of 1914, but more to the manner in which the industry was conducted, and the failure of the employers to develop better methods.

Before 1910 the industry was carried on largely on a sweatshop basis. With reforms introduced by the protocol, it became necessary to raise the industry to a more civilized plane. But after the first efforts in this direction, the employers in the various branches of the industry found it more and more difficult to keep up the pace. Few of them acquired the degree of business and managerial efficiency which were required to fulfill the promise of the protocol to the workers for improved conditions. Most of them inevitably accepted the alternative of resisting the demands of the workers, which necessarily was out of harmony with the spirit of protocolism.

Even the employers who wished to adopt progressive and enlightened methods were handicapped by the unlimited competition
which the nature of the industry permitted. In some industries,
large-scale production permits economies which give the large and
well-managed concern an advantage over the small and badly
managed establishments. This was not the case in the garment
trades, where it was still possible for a man who could scrape together
a little capital to open a small shop, underbid his larger rival, and
make his profit by cutting wages and refusing decent working conditions. It had been hoped that under the protocol wages and conditions would be standardized and the objectionable shops eliminated,
but this result was not obtained. The ease with which small shops
could be started, the seasonal nature of the industry, and the competitive habits of the workers themselves all stood in the way of

success, and by themselves the unions were not strong enough to change these conditions within the short period for which protocolism endured. To fulfill the promise of the protocol, it was necessary that the industry should be regularized, that there should be some control over the labor supply, that earnings should be brought into some definite relation to output, and that there should be some recognized method of fixing piece rates.

There were two ways in which this might be accomplished. The first was for employers and employees to undertake the task together through their cooperative boards, assuming joint responsibility and joint control. This was the method which the leaders in the New

York cloak and suit trade strove unsuccessfully to develop.

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This method of democratic government failed because psychologically and ideologically the industry was not ready for it. Even in the heyday of protocolism, the employers could not accept the idea that the workers were on an equal basis with them in the industry. The leaders of the Protective Association who made much of the protocol were in reality guided more by the vision of becoming "benign masters" than by the ideal of democracy in industry. \* \* \* Workers and union officials alike were sensitive to this attitude.

If joint control within the industry were impracticable, control might be exercised by some outside agency upon which the two sides should agree, and this method was tried in the dress and waist trade. But for this to be successful, it was necessary that there should be strict supervision of business methods and an impartial control of both employers and workers. Both alike must be regarded as factors in production, and questions of their relations must be settled on a basis of scientific standardization and full knowledge of all pertinent facts. But such a course ran counter to all the individualistic traditions of the industry. The belief in the value of trade secrets, the use of speculative methods, and the reliance upon strategy as a means of capturing business put almost insuperable obstacles in the way of a plan based on scientific principles and requiring close scrutiny of all methods and interests.

In the last analysis, the protocol came to an end because of two fundamental contradictions. It imposed upon the industry a demand for progressive improvements which could not be met on the existing basis of doing business. And it implied a spirit of democracy and a willingness to accept the dictates of scientific control which were in conflict with the traditions and ideology of the industry. To state it simply, the employers would not relinquish what they conceived to be their prerogatives and the workers felt that they had to force the employers to do so. In other words, the philosophy of a community of interests and of arbitration by reason with which the protocol started out clashed with the fundamental conflicting interests. When the latter were brought to a focus in the issue of control in the summer of 1916, the whole structure of protocolism went to smash.

In other words, the protocol embodied ideals in advance of its time, and fell through because it called for a higher degree of intelligence, self-control, good feeling, and subordination of personal preferences and customs to the general good than either employers or employees were prepared to exercise. Nevertheless, the experiment was by no means a total failure. The protocol perished, but its results persisted. The idea of collective bargaining, as a practicable policy, was established in the chief centers of the industry. The workers gained their first effective lessons in collective discipline and the handling of union problems. They learned that a rule-of-thumb knowledge of the industry was not sufficient as a basis for

improving conditions, and gained a new respect for the services of statisticians, economists, and industrial experts as they saw the results of their technical studies of conditions. They waked up to the fact that the help of such specialists was indispensable in securing a body of facts on which advance movements might be founded, and that without such a basis of facts optimistic efforts at improvement were foredoomed to failure. They learned the possibility of real cooperation, through collective action, with their employers in organizing and developing the industry. And they, like the employers, benefited by the improved standing the experiment had given the industry in the estimation of the public.

The protocol in general lifted the women's garment trades from the status of a despised immigrant industry to that of national interest and importance. Through the men and women who were drawn into the service of the protocol, the industry was dragged out of the obscurity of the immigrant ghettos into the limelight of general community interests.

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## Reducing Labor Turnover at Coal Mines

A PAPER read by Eugene McAuliffe at a meeting of the Rocky Mountain Coal Mining Institute, held February 16–18, 1925, dealt with the problem of accident reduction at coal mines. Mr. McAuliffe noted the fact that "the labor turnover at coal mines has long been a fertile subject for parade by complaining coal operators, the question invariably occupying a place of prominence in the list of disabilities that tend to increase the cost of producing coal," but found that little has been done to remove the causes of excessive labor turnover at the mines. Due to the character of mine employment and its hazards, the difficulty of close personal supervision of individual employees, and the impossibility, at times, of transmitting understandable directions to men of many diverse nationalities, he was of the opinion that the cost of securing and breaking in new men for underground work equals that in manufacturing industries—\$100 per man.

In speaking of labor turnover the speaker excluded the enforced shifting about of men laid off by the shutdown of mines due to accident or lack of material, and included only dismissals and voluntary resignations, holding that it is in these two classes that hope of improvement lies. These two classes of departures may, he contends, be reduced by a system similar to that adopted on the railroads of the country, since "there is much similarity between the railroad problems of a few years ago and the coal-mining problems of to-day. The railroads have, it may be said, found a solution of their labor troubles."

On the railroads it had been found that dismissal as a punishment for violation of rules had no constructive influence whatever. Suspensions and dismissals, therefore, except for certain extreme causes, were abolished and a system of debit and credit marks, without loss of pay, was substituted. Under the new scheme an individual record was kept for each man, and demerits were charged against his record, the number "bearing a direct relation to the seriousness of the offense, with provision for the removal of demerits after a given period of satisfactory service." Dismissal was looked upon as a

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"capital punishment" and exercised only in cases involving dislovalty, dishonesty, intoxication, or malicious and gross carelessness. Use of the new system resulted in (1) a greater security of employment; (2) a decrease in the number of vacancies, making job seeking more difficult on the part of those who merely sought a change of environment; (3) a rapid growth in the value of the service rendered by the individual employee; (4) the almost complete disappearance of the professional "boomer"; and a marked reduction in the number of accidents properly chargeable to man failure. It is stated that "with a feeling of security based on the definite knowledge that careful, faithful service will be recognized, not only by freedom from dismissal, but through advancement and promotion, the railroad employees of this country have developed into a class of citizens second to none."

Mr. McAuliffe suggested, in conclusion, that it might be well for the coal industry to examine carefully the methods used by the railroads and to expand, in the direction described above, the efforts now being made toward more stable employment of mine labor.

## Employee Representation on Railroads

IN A speech delivered before the Industrial Club of Chicago, January 29, 1925, and printed in the Railway Age of February 7, 1925 (pp. 380-382), Gen. W. W. Atterbury, vice president of the Pennsylvania Railroad, stated that in his opinion three things were necessary to railroad progress and prosperity—credit, the active good will and cooperation of the American public, and the cooperation of the railroad employees. As to the third requisite, he said:

Now, the third essential to railroad progress and prosperity is cooperation of railroad employees. In this respect the relationship between railroads and industry is of far-reaching importance. The margin between income and outgo in the railroad business is so small that we must have the cooperation of the men on the railroads themselves in order to operate efficiently and economically. is likewise essential that in our efforts to secure that cooperation we have the support of the business community to the extent that our policies are sound and deserve such support.

You have no doubt heard and read a great deal about what has been accomplished on the Pennsylvania Railroad through our plan of employee representa-tion. I shall not go into the details of its operation. The important things are the principles underlying it, and the spirit in which it is carried out. Essentially it is this: Any employee can belong to any union he desires, but

the Pennsylvania Railroad insists upon dealing with its own employees and not with the representatives of absentee organizations to which they belong. Pennsylvania deals with its employees collectively through employee representatives elected by secret ballot, regardless of their membership or nonmembership n any organizations.

Every important matter affecting the employees' wages and working conditions is settled by joint action. The highest authority on the railroad in the determination of these questions is a joint reviewing committee in each department of the service, equally representative of management and men. A two-thirds vote is necessary to decide any question. Only six cases in four years have had to go beyond that committee, and each of these cases was settled by arbitrators chosen

by the committee, which in turn accepted their decision.

The whole plan is designed, through a series of regularly scheduled meetings between management and men, to give every individual employee a fair hearing by a responsible officer, a prompt decision, and a review, if necessary, by a joint board of officers and men, which has final authority.

Now the point I make in this connection is that a relationship between man. agement and men based on these principles of mutual confidence, facts jointly established, and fair play is essentially in the public interest. By the same token, any effort on the part of outsiders, whether Government or private agencies, to drive a wedge between railroad management and railroad employees, is certainly not in the interest of the employees themselves, of the company, or of our service to the public.

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## Report of Negro Industrial Commission of Missouri

\*HE third biennial report of the Missouri Negro Industrial Commission, covering the years 1923 and 1924, calls attention to the fact, sometimes overlooked, that the negro migration is not only from the South to the North, but from one part of the South to another. Missouri has received its full share of this migration, and as a consequence various problems of adjustment have come to the fore.

In 1919 the negro population of Missouri was approximately 175,000; the large migration of our people from the Southern States has increased the negro population to approximately 250,000. The problems of maladjustment, housing, health, interracial and industrial relations are problems of vital importance which cause grave concern and which should receive much greater support from the great State of Missouri.

Missouri offers a peculiar opportunity for these newcomers, because its cultivation of cotton, which has increased greatly within recent years, gives a chance for the rural negroes who prefer to continue the kind of work to which they are accustomed rather than to enter the industries of the large cities. Thousands of negro migrants, it is said, have flocked into the southeastern counties to work in the cotton fields, and on the whole have benefited by the change, securing better housing and better chances generally than they had in the States they left. The report contains an earnest appeal to these newcomers to "make good," and to realize that in these districts, where formerly the negro population was small or nonexistent, the future for the colored people depends on how well the migrants adapt themselves to their new conditions.

The educational question presents many difficulties. Missouri does not permit negroes to attend the same schools as the whites, but no district is obliged to establish a school for negroes unless it contains at least 15 colored children of school age. "Because of this law hundreds of colored children are without educational facilities." Moreover, such colored schools as they have are insufficiently supported and supervised. A law of 1921 called for one negro supervisor of schools for the State, but it is pointed out that this

does not meet the needs of the situation.

According to recent statistics there are 750 colored schools in Missouri. average school term is less than 180 days. If it were possible for an inspector to visit four schools each day he could not begin to cover the territory. There should be more workers added, especially trained vocational workers.

In regard to country schools, it is admitted that the money question is a difficult one. "It is evident that many school districts are unable to fully equip a school for white children and that it will be some time at least before they will be able to equip one for colored children." To meet this situation, the report recommends the passage of laws authorizing appropriations which will enable the counties to take advantage of the help offered by the Jeans and Rosenwald funds.

[988]

In spite of insufficient school facilities, illiteracy is decreasing. Figures are presented showing that in the group aged 65 and over, 59.3 per cent are illiterate, of those aged 55 to 64, the percentage of illiteracy is 34.5, among those aged 45 to 54 it is 17.9, and drops rapidly in the younger groups, being only 3.6 per cent among those

aged 10 to 14.

The matter of housing presents very serious difficulties. In the cotton counties, it is stated, hundreds of new houses have been built for the migrants, and these are usually an improvement upon the housing they have left, but in the cities little of this sort has been done, and conditions are bad. An interesting suggestion is quoted in regard to the situation in St. Louis. There, as in some other cities, negroes are discriminated against in the matter of rents, and are crowded together in old and insanitary buildings, in which healthful living is almost impossible. The whites objected to their moving into white districts, and proposed a segregated district, but without any promise that good conditions of drainage, paving, etc., should be provided in it. One of the St. Louis newspapers discusses this matter, admits the objection of the colored residents to such a scheme and its doubtful constitutionality, and proposes in its stead the following plan.

There is one obvious way to settle this vexing problem, namely, by appealing to the self-interest of colored property buyers and renters, by offering them, in areas not preempted by white owners and tenants, as good accommodations as would be offered to white people for the same money. This would encourage colored buyers and tenants to take such accommodations. And it would be but simple justice, as well as in the general interest.

The commission renews its appeal made in the report of two years ago for some State provision for the tuberculous, the feeble-minded, and the insane of the negro race, pointing out the loss from an economic standpoint and the danger from a health standpoint of permitting these to mingle with the general population, when institutional care is plainly called for. The report closes with a series of recommendations, which are of interest as showing the points on which the colored people themselves lay the most stress.

We deem it advisable to recommend the following remedial legislation for the welfare of the colored citizens of the State:

1. Adequate appropriation for Lincoln University.
2. That provision be made for the education of all the children of the State regardless of color or local conditions; (b) that more State aid be given to weak districts so as to enable them to adequately maintain the dual system of education; (c) we recommend the passage of the community school bill.

3. That a separate institution be established for our delinquent boys who are

now confined at Boonville.

4. That a sanitorium be established for the tuberculous members of the race. Adequate appropriation for a home for feeble-minded colored people.

6. A minimum teacher's salary scale, based upon training and experience. (b)

Adequate appropriation for district summer normals for colored teachers.

7. A more nearly equitable recognition of the colored citizens of the State in the matter of appointments in the various forms of public service, particularly in the large number of interests in which colored people are directly engaged or concerned. (b) We recommend the following deputy appointments: Deputy food and drug commissioner, deputy insurance commissioner, representation on the board of charities and corrections.

8. We recommend that Hall A, colored section of the prison, be enlarged and that sanitary plumbing be installed. The present conditions are not conducive

to good morals nor good health.

## Socio-Economic Conditions in Two Chinese Villages

THE results of two social surveys in villages near Peking by students of Tsing Hua College, Peking, China, under the direction of Dr. Ta Chen, are published in the Chinese Economic Monthly, February, 1925 (pp. 11-23). The survey covers 91 families comprising 411 persons in the village of Chenfu and 56 families consisting of 284 persons in Hupien. These surveys, which reveal a deplorable economic condition, are believed to be fairly representative of conditions among the poor-class Chinese in rural communities.

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Chenfu.—The village of Chenfu is located about 6 miles from Peking near the old summer palace, the population of the village consisting largely of Manchus whose families were formerly employed by the imperial household. Since 1911, however, when the pension system for the Manchus was discontinued, the economic status of many of the families has steadily declined. The country about the village is level and the soil is rich, but in summer the temperature may reach 110° F. and in winter may drop to zero.

Among the 411 persons covered by the study there were 177 adults and 234 children, all but 17 of the adults being in some kind of employment. Among the industrial workers were carpenters, tilers, mat makers, servants, cooks, and ricsha pullers. The carpenters, tilers, and mat makers were, in general, employed in Peking or Tungchow and these being skilled workers, their families were among

the more prosperous of those studied.

There were few engaged in educational or agricultural work but a number were in military or commercial pursuits. Enlistment in the army is common among the Manchus; in the old days the body-guard of the Emperor, as well as the provincial garrisons, was for the most part composed of Manchu soldiers. At present the finances in the army are very unsatisfactory and the military class are among the worst sufferers in the community. Young boys up to 14 years of age are often apprenticed to commercial establishments, the employers providing them with food, clothing, room, medical care, and training during the three years of apprenticeship. Of the woman workers the majority were from the poorest families and were employed as maids or nurses.

The average monthly earnings per person were found to be \$7.76 (Mexican 1). Fifty-five persons earned from \$1 to \$5, 44 from \$6 to \$10, 11 from \$11 to \$15, 3 from \$16 to \$20, 3 from \$21 to \$25, and 2 over \$31. The earnings of 59 persons were not shown separately.

2 over \$31. The earnings of 59 persons were not shown separately. The daily expenditure on articles of food was ascertained for 82 families. Forty-four adults and 33 children were found to spend as little as an average of 8.8 coppers per adult, children of all ages under 14 years being counted as half adults so far as consumption of food was concerned, while the food of only 3 adults and 4 children was found to average as much as 48 coppers per adult per day. The average daily cost of food per adult was 15 coppers. The principal articles of diet were maize, millet, potatoes, fresh and pickled vegetables, vegetable oil, and sauce, with no meat except

<sup>&</sup>lt;sup>1</sup> Mexican dollar at par equals approximately 50 cents United States currency; both par value and exchange rate vary. The number of coppers to the dollar varies in different places.

on festival days. Data on rent covered 52 families only, as the remainder either owned their homes or gave insufficient information. The average rent paid by the 52 families was 105 coppers per month.

At the time the study was made, only 113 of the 234 children attended the primary school but the number has since increased to 141. The school, which furnishes instruction in elementary subjects, was started in 1914 by the president of Tsing Hua College. It has been reorganized into a regular primary school under the regulations of the Ministry of Education but is supported entirely by the Chinese members of the college, who contribute a little more than \$100 a month for its expenses. There are three tutors in the village who have about 60 pupils for whom they charge a small tuition fee. These tutors follow the old-fashioned method of instruction and only occasionally use the textbooks used in the primary schools.

Since the abolishment of the Manchu pension system and the consequent increase in poverty, a kitchen has been opened in the village which distributes millet porridge to the poor of Chenfu and the neighboring villages each morning during about five months of the year. The average number of persons coming to the kitchen

for porridge is about 300 per day.

Hupien.—In Hupien the living conditions of 56 families consisting of 284 individuals were investigated, of whom 103 were employed. The largest number of males, 42, were employed in pawnshops in neighboring cities. There were 42 agricultural workers, 16 industrial workers, and 2 teachers. Among the agricultural and industrial workers there were 27 women and girls.

The monthly earnings of 81 persons were shown. Of these, 54 earned from \$1 to \$5, 11 from \$6 to \$10, 6 from \$11 to \$15, 3 from \$16 to \$20, 4 from \$21 to \$35, and 3, \$46 and over. Four persons who were managers of pawnshops earned between \$50 and \$100 per

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The average cost of food per adult per day was 16 coppers, the expenditures of all but five of the members of the 44 families reporting ranging from an average of 8.5 to 48 coppers per day. The average annual rent paid by 29 families amounted to \$5.50 while there

were 21 families who owned their own homes.

Among the 44 families which furnished fairly satisfactory data relating to children, there were 130 children who had reached school age, but only about 60 were attending the village primary school. Since 1912 the school has been maintained by the village, about \$400 yearly being contributed for this purpose. There is also a free night school for boys and girls.

The data secured as to expenditures for clothing were unsatisfactory in both towns but they have been estimated, on the basis of a cost of living study among the employees of Tsing Hua College,<sup>2</sup>

to be approximately \$40 per family.

Estimated cost of living.—The following table shows the estimated annual cost of living of families in the villages of Chenfu and Hupien. It was impossible to estimate the total income of the families as some were reluctant to give information about their property. In

See also Monthly Labor Review, January, 1925, pp. 57, 58.

many cases, however, the occupational earnings represent the only source of income.

t diametri e sas de semon rient	Chenfu		Hupien
Food	\$84.00		\$106, 60
Clothing	40.00		40. 00
Rent	6. 00.		5. 50
Miscellaneous (fuel, light)	5. 00	on	<b>5.</b> 00
Total expenses	135. 00	doĵ	157. 10
Occupational earnings	93. 12	201	88. 80
Deficit	41. 88		68. 30

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### Recommendations of German Medical Factory Inspectors as to Rest Periods 1

In THE regulation of the hours of labor in industry, the problem of rest periods often plays an important rôle. While German employers as a rule endeavor to fix the number and duration of rest periods so as to insure the workers sufficient rest, the latter, in their desire for a short working day, frequently demand that the rest periods be made as short as possible, without considering that in so doing they are acting against their own interests. In order to prevent controversies on this subject the joint council (Arbeitsgemeinschaft) of German medical factory inspectors (Gewerbeärzte) makes the following recommendations as to rest periods:

(1) Any work, whether physical or intellectual, of protracted duration should be broken by rest periods. If this is not done, fatigue increases disproportionately while efficiency decreases considerably. The necessity of rest periods has been demonstrated by scientific investigations and practical experience.

(2) The necessary rest periods should be granted during the working day. It is undesirable, from the physiological standpoint, to dispense with rest periods during the working day on the assumption that the workers can get sufficient rest after the close of work. The time at which rest periods are to be granted and their duration depend on the nature and duration of the work, and frequently also on external circumstances (such as train connections, etc.).

(3) Normally the working efficiency decreases at noontime, the physiologic curve showing a depression at this hour. Noon is therefore naturally the best time for the principal rest period, which should be at least one hour, provided the place where the worker eats is not too distant from his working place. If the worker has to go some distance to his eating place, the rest period should be correspondingly lengthened. A longer rest period should also be granted to workers handling poisonous substances, so that they may have ample time to wash and change their clothes.

Lunch rooms, comfortably furnished, should be established in the proximity of the working place for those workers who live too far away to be able to eat their lunch at home.

(4) The undivided working-day is a product of the large cities. It has certain apparent advantages but also considerable physiological disadvantages. An essential for the undivided working-day is a nutritious breakfast before work and a short rest period at lunch time. Lunch should include some hot dish.

(5) Certain secondary rest periods are also necessary. Such short interruptions or slowing down of work are incidental to some labor processes. Where such is not the case two short rest periods of 10 to 15 minutes each should be granted, one in the morning and the other in the afternoon. The time and duration of these will depend on the special working conditions. If the working-day begins early and the workers have to walk a long distance to their work, an earlier and longer rest should be granted during the forenoon. So-called "short hours" (50 minutes' work and 10 minutes' rest) may also be suitable under certain circumstances.

<sup>&</sup>lt;sup>1</sup> Mitteilungen der Arbeitgeberverbände Unterelbe und Hamburg-Altona. Hamburg, Feb. 1, 1925.

(6) The present-day custom of shortening the rest periods as much as possible or of dispensing with them altogether is contrary to all physiological principles and constitutes exploitation of the working force. This is true not only of adult healthy male workers but in a still higher degree of weak and sickly and female and juvenile workers.

(7) Observance of the above principles will preserve the working capacity and increase the output and earning capacity of the workers. Nonobservance will lead to insufficient relief from fatigue, premature exhaustion, and dissipation of

the most valuable possession of the worker, his working capacity.

The German medical factory inspectors consider it their duty to request the observance of these principles. It is also the duty of the workers themselves to oppose energetically any irrational shortening or elimination of rest periods.

## An Experiment in Mine Management in Wales

TORTH WALES is the scene of a novel experiment, recently undertaken, to see what can be done with an unprofitable mine when the element of profits is eliminated. According to the Manchester Guardian, which in its issue for March 14, 1925, gives the details of the scheme, mining in this region is a doubtful venture.

The North Wales coal field is a classical example of a field in which output is low through physical causes, and the wages under the national agreement can only be paid, when trade is bad, at the expense of profits. In 1923 the output per man per annum was 192 tons lower than in any other district, except Cumberland and Bristol.

For some time past, losses have been heavy, and the owners of one mine, the Vauxhall Colliery at Ruabon, feeling that they could not afford to carry on longer, had decided to close down early in March until trade should improve. This would throw 700 men out of employment and affect unfavorably the general prosperity of the neighborhood. As a means of avoiding this, it was proposed that the owners should turn the mine over to the men for three months to see what they could do with it, and this proposition was accepted. Two important features of the plan are given, as follows:

The owners of the colliery consent to hand over the mine to the control of the managers and men, waiving all ownership claims, and taking no profits, if any, during the time of the experiment, which will be for three months.

The manager guarantees to the owners that they shall be absolved from any loss incurred by the experiment.

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To cover any losses, the men are collecting a guaranty fund, which is to be deposited in a local bank in the name of three trustees, and is not to be touched unless actual losses occur. Any profits which may be made are to be added to the fund to provide against future losses. Within less than a week after the plan was decided upon, £3001 had been subscribed to this fund.

Wage rates are to be revised, as a part of the scheme, though they are not to be reduced below the rates current in the district. The men are also to put in as much time at the coal face as they can possibly do without a breach of the seven hours act. Naturally a man will work with more enthusiasm when the full benefit of the increased effort accrues directly to himself and his fellows, and apparently the promoters of the scheme are trusting to this fact and to the elimination of profits to put the mine in a position to pay the cost of operation, including wages.

Pound at par=\$4.8665; exchange rate varies.

## PRICES AND COST OF LIVING

### Retail Prices of Food in the United States

THE following tables are based on figures which have been received by the Bureau of Labor Statistics from retail dealers through monthly reports of actual selling prices.

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Table 1 shows for the United States retail prices of food for March 15, 1924, and February 15 and March 15, 1925, as well as the percentage changes in the year and in the month. For example, the price per dozen of eggs, strictly fresh, was 34.8 cents in March, 1924; 53.4 cents in February, 1925; and 39.1 cents in March, 1925. These figures show an increase of 12 per cent in the year, but a decrease of 27 per cent in the month.

The cost of the various articles of food combined shows an increase of 5.2 per cent March 15, 1925, as compared with March 15, 1924, and a decrease of 0.3 per cent March 15, 1925, as compared with February 15, 1925.

Table 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE MARCH 15, 1925, COMPARED WITH MARCH 15, 1924, AND FEBRUARY 15, 1925

[Percentage changes of five-tenths of 1 per cent and over are given in whole numbers]

Article	Unit	Averag	e retail pri	ee on—	(-) M	of increase decrease ar. 15, 1925, red with—
romento a win appended	eith bus	Mar. 15, 1924	Feb. 15, 1925	Mar. 15, 1925	Mar. 15, 1924	Feb. 15, 1925
Sirloin steak PRound steak Rib roast Chuck roast Plate beef	do	Cents 38. 9 33. 1 28. 6 20. 6 13. 3	Cents 38. 5 32. 7 28. 4 20. 4 13. 2	Cents 39, 6 33, 6 29, 1 21, 0 13, 6	+2 +2 +2 +2 +2 +2 +2	+3 +3 +2 +3 +3
Pork chops Bacon Ham Lamb, leg of Hens	do do	26. 9 36. 3 43. 6 37. 1 35. 9	30. 3 40. 6 48. 1 38. 3 36. 1	37. 4 44. 4 51. 2 39. 0 36. 9	+39 +22 +17 +5 +3	+23 +9 +6 +2 +2
Salmon, canned Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 5-16 oz. can Pound	31. 1 13. 9 12. 1 58. 0 30. 6	31. 4 13. 9 11. 2 50. 6 31. 3	31. 2 13. 8 11. 2 55. 5 31. 1	+0.3 -1 -7 -4 +2	-1 -1 0 +10 -1
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh D	do do	28. 9 36. 7 17. 5 24. 5 34. 8	29. 5 36. 4 22. 8 25. 8 53. 4	29. 5 36. 5 23. 1 25. 8 39. 1	+2 -1 +32 +5 +12	0 +0.3 +1 0 -27
Flour Corn meal Rolled oats		8.7 4.6 4.4 8.8 9.7	9.5 6.4 5.5 9.2 11.0	9.4 6.4 5.5 9.2	+8 +39 +25 +5 +14	-1 0 0 0 +1

<sup>&</sup>lt;sup>1</sup> In addition to monthly retail prices of food and coal, the bureau secures prices of gas and electricity from each of 51 cities. These prices are published at quarterly intervals in the MONTHLY LABOR REVIEW. Retail prices of dry goods were published quarterly until November, 1923.

TABLE 1.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE MARCH 15, 1925, COMPARED WITH MARCH 15, 1924, AND FEBRUARY 15, 1925—Continued

Article	Unit	Averag	e retail pri	ce on—	(+) or (-) Ma	of increase decrease ar. 15, 1925, ed with—
The part of the		Mar. 15, 1924	Feb. 15, 1925	Mar. 15, 1925	Mar. 15, 1924	Feb. 15, 1925
Wheat cereal Macaroni Rice Beans, navy Potatoes	do	Cents. 24.3 19.5 9.7 9.9 2.8	Cents. 24. 6 20. 3 10. 8 10. 4 2. 6	Cents. 24.7 20.4 10.9 10.4 2.5	+2 +5 +12 +5 -11	+0.4 +0.4 +1 0 -4
Onions	No. 2 can	6, 2	6. 3 5. 0 12. 6 17. 7 18. 5	6. 3 5. 2 12. 6 17. 9 18. 5	+7 -16 -2 +14 +3	0 +4 0 +1 0
Tomatoes, canned	Pounddododo	70. 9 40. 8	13. 8 7. 7 74. 8 52. 1	13. 9 7. 7 75. 1 52. 3	+8 -26 +6 +28	+1 0 +0.4 +0.4
PrunesRaisinsBananasOranges	Dozen		17. 1 14. 6 36. 8 44. 7	17. 3 14. 6 37. 6 48. 3	-3 -7 -4 +26	+1 0 +2 +8
All articles combined		******			+5.2	-0.3

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1925, ith-

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+23 +9 +6 +2 +2

-27

+1 ricity Table 2 shows for the United States average retail prices of specified food articles on March 15, 1913, and on March 15 of each year from 1919 to 1925, together with percentage changes in March of each of these specified years, compared with March, 1913. For example, the price per pound of flour was 3.3 cents per pound in March, 1913; 6.8 cents in March, 1919; 8 cents in March, 1920; 6.4 cents in March, 1921; 5.3 cents in March, 1922; 4.8 cents in March, 1923; 4.6 cents in March, 1924, and 6.4 cents in March, 1925.

As compared with the average price in March, 1913, these figures show the following increases: 106 per cent in March, 1919; 142 per cent in March, 1920; 94 per cent in March, 1921; 61 per cent in March, 1922; 45 per cent in March, 1923; 39 per cent in March, 1924; and 94 per cent in March, 1925.

The cost of the various articles of food combined showed an increase of 55.9 per cent in March, 1925, as compared with March, 1913.

Table 3 shows the changes in the retail prices of each of 22 arrivers

could be purchased for \$1 in each year, 1913 to 1925; and in Manua

Although monthly prices on 48 food serious have been second since January, 1019, price on others articles have been second each month since 1913.

TABLE 2.—AVERAGE RETAIL PRICES OF SPECIFIED FOOD ARTICLES AND PER CENT OF INCREASE OR DECREASE MARCH 15 OF CERTAIN SPECIFIED YEARS COM. PARED WITH MARCH 15, 1913

[ Percentage changes of five-tenths of 1 per cent and over are given in whole numbers]

Article	Unit		verage			ice or	n Ma	ar. 1	5—	sp	cent ecified ar. 15	1 mo	nth,	Mar.	15 of pared	eac
Mer 15, Peb 15,	At well	1913	1919	1920	1921	1922	1923	1924	1925	1919	1920	1921	1922	1923	1924	192
	Course	Cts.	Cts.	Cts.	Cls.	Cts.	Cis.	Cts.	Cts.		TEST					-
Sirloin steak	Pound.	24. 7	41.8	40. 8	39. 1	35. 9	37.3	38. 9	39. 6	69	65	58	45	51	57	60
Round steak	_do	21.3	39. 4	37. 5	39. 4	30. 8	31. 7	33, 1	33. 6	85	76	64	45	49	55	58
Rib roast	do	19.4	33. 4	31.9	30, 0	27.0	27. 6	28. 0	29, 1	72	64	55	39	42	47	50
Chuck roast	do	15. 6	28.4	25, 1	22.5	19.3	19, 5	20. 6	21.0	82	61	44	24	25	32	35
Plate beef	do	11.8	22. 1	18. 2	15. 7	13. 0	12.8	13. 3	13. 6	87	54		10	8	13	1!
Dank shows	do	20.2	20 6	90 1	25 2	21 2	20 2	98 0	97 A	00	93	74	54	39	33	84
Bacon	do	26 1	54 0	50. 2	41 0	30 0	39 2	36.3	44 4	110	92		49	50	39	70
Ulam	do	26.0	51 A	51 9	48 8	40 8	45 0	43 6	51 2	08	97	88	92	73	68	
Camb	do	10. 1	20 0	20. 9	24. 4	27 5	26 0	27 1	20 0	00	108	80	96	88	94	97
Ham Lamb Hens	do	21. 4	41, 1	45. 7	43. 2	37.8	35. 8	35. 9	36, 9	92		102	77	67	68	104
						1	\$		1							
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart.	8.9	15. 3	16. 6	15. 2	13. 0	13. 6	13. 9	13. 8	72	87	71	46	53	56	58
Milk, evaporated	(2)		15. 3	15, 1	14.6	11, 3	12 2	12.1	11, 2							
Butter	Pound.	41.4	66. 5	75. 2	57. 6	45, 8	57.6	58, 0	55, 5	61	82	39	11	39	40	34
Oleomargarine	do		39. 0	43, 1	34.0	27.9	29.0	30. 6	31. 1							
Oleomargarine  Nut margarine Cheese Lard Vegetable lard sub- stitute	.do	10	35, 5	36, 1	31. 0	27. 0	27.4	28, 9	29. 5							
Theese	do	22.1	40. 5	42.8	39.0	33. 0	37. 1	36.7	36. 5	83	94	76	49	68	66	6
lord	do	15 6	33.4	30.4	19. 6	17.3	17.4	17. 5	23. 1	114		26		12	12	48
Vegetable lard sub-		20, 0	00. 1	00. 1		~ ***		-	-						1.0	30
etituto	do	1	23 2	37.5	24 6	21 0	22. 4	94 5	25 8	le and	10.00	1	1000			
stitute Eggs, strictly fresh.	Dozen .	26. 4	48. 3	55. 6	41. 7	31, 8	38. 5	34. 8	39. 1	83	111	58	20	46	32	48
											100	88	55	55	55	
Flore	do	3.3	6.8	8.0	6.4	5.3	4.8	4 6	6.4	106	142	94	61	45	39	94
Corn meal	do	2.9	5.9	6.5	4 8	3 0	4.0	4 4	5.5	103	124	86	34	38		90
Rolled oats	do	200	8 3	10.3	10 2	8 8	8 8	8 9	9 2	100		00		00		1
Bread	(1)	101	14. 1	14.1	13, 2	10. 2	9.7	9. 7	11. 1				00		*****	
Wheat cereal	100	n	25 1	90 7	20 0	26 0	24 7	24 3	24 7	Do	tipo	B	1080	3-3		
Macaroni	Pound		19 3	20. 2	21.0	20. 2	19.8	19 5	20 4	PER'S	FF KIN	BUTTER.	ELY!			***
Rice	de	8 6	13 4	18 4	0 8	0 3	0 4	0 7	10 0	56	114	14	8	0	13	2
Roons novy	do	0.0	12.5	11 0	8 4	8 0	11 4	0 0	10 4	30	***	8.0			10	41
Rice Beans, navy Potatoes	do	1.5	2.9	6.8	2.5	3. 1	2. 2	2.8	2. 5	93	353	67	107	47	87	67
ni wantao ore	12267	433	20.0	0.4		11.0			0.9	2	627	22 A	.00	ny.		
Jillons.			0.0	9. 9	4.0	11.0	0. 9	0. 9	0. 8							
abbage	00		0. 0	70.0	4. 2	0. 4	0. 0	0. 2	0. 2							
Beans, Daked	(0)		18. 1	10.8	10. 1	13. 2	13. 0	12.8	12.0							
orn, canned	5.2		19, 3	18, 5	10.7	15, 7	15. 4	15. 7	17. 9							
Onions Cabbage Beans, baked Corn, canned Peas, canned Comatoes, canned	(9)		19, 0	19. 0	18.0	17.7	17.4	18. 0	18. 5	100	1000		Town o	777		
Comatoes, canned Sugar, granulated	(5)		16.4	15. 1	11.8	13. 6	12.9	12.9	13. 9							
Sugar, granulated	Pound.	5.4	10, 6	18, 7	9.7	6. 5	10. 2	10. 4	7.7	96	246	80	20	89	93	43
rea	do	54. 3	70.4	73. 2	71.1	67. 5	68. 9	70.9	75. 1	30	35	31	24	27	31	38
rea Coffee	do	29.8	37. 6	49.1	37.1	35. 6	37. 9	40.8	52, 3	26	246 35 65	24	19	27	37	76
Prunes	do	-	20, 9	28. 7	20. 9	19. 2	19.8	17.8	17.3							
Raisins	do		16.4	26. 4	31.7	24. 6	18. 4	15. 7	14. 6							
Bananas	Dozen .		36. 6	41.4	41.6	36. 9	36, 7	39. 0	37. 6							
Oranges	do		53. 2	62.0	43. 7	53. 9	47. 9	38. 3	48. 3							
Il articles com-									9			1 11				
bined 6										80.8	106, 2	61.0	43. 1	46. 4	48. 2	5

<sup>1</sup> Both pink and red.

1914. 1916 1917. 1918. 1919 1920. 1921

25: A

Table 3 shows the changes in the retail prices of each of 22 articles of food 2 as well as the changes in the amounts of these articles that could be purchased for \$1 in each year, 1913 to 1925, and in March, 1925.

<sup>3 8-</sup>ounce package.

No. 2 can.

Both pink and red.

\$ 8-ounce package.

\$ 15-16-ounce can.

\$ 28-ounce package.

The following 22 articles, weighted according to the consumption of the average family, have been used from January, 1913, to December, 1920: Sirloin steak, round steak, rib roast, chuck roast, plate beef, pork chops, bacon, ham, lard, hens, flour, corn meal, eggs, butter, milk, bread, potatoes, sugar, cheese, rice, coffee, and tea. The remainder of the 43 articles shown in Tables 1 and 2 have been included in the weighted aggregates for each month beginning with January, 1921.

<sup>&</sup>lt;sup>3</sup> Although monthly prices on 43 food articles have been secured since January, 1919, prices on only 22 of these articles have been secured each month since 1913.

TABLE 3.—AVERAGE RETAIL PRICES OF SPECIFIED ARTICLES OF FOOD AND AMOUNT PURCHASABLE FOR \$1 IN EACH YEAR, 1913 TO 1925, AND IN MARCH, 1925

TO HOS	Sirloi	n steak	Roune	1 steak	Rib	roast	Chuel	k roast	Plate	beef	Pork	chops
Year	Average retail price	Amt. for \$1	Average retail price	Amt. for \$1	Aver- age retail price	Amt. for \$1	Average retail price	Amt. for \$1	Average retail price	Amt. for \$1	Average retail price	Amt. for \$1
913	259 257 273 315 389 417 437 437 388 374 391	Lbs. 3.9 3.9 3.7 3.2 2.6 2.4 2.3 6.2 7.2 6.5 2.5	Per 1b. \$0. 223	Lbs. 4.5 4.2 4.3 4.11 3.4 2.7 2.6 2.5 2.9 3.1 3.0 3.0 3.0	Per lb. \$0. 198 . 204 . 201 . 212 . 249 . 307 . 325 . 335 . 291 . 276 . 284 . 288 . 291	Lbs. 5. 1 4. 9 5. 0 4. 7 4. 0 3. 3 3. 1 3. 0 4. 3. 6 3. 5 3. 4	Per lb. \$0. 160 . 167 . 161 . 171 . 209 . 266 . 270 . 262 . 212 . 197 . 202 . 208 . 210	Lbs. 6.3 6.0 6.2 5.8 4.8 3.8 3.7 5.1 5.0 4.8 4.8	Per lb. \$0. 121 . 126 . 121 . 128 . 157 . 206 . 202 . 183 . 143 . 128 . 129 . 132 . 136	Lbs. 8.3 7.9 8.3 7.9 8.3 7.6 7.8 7.6 7.4	Per 1b, \$0, 210 220 203 227 319 390 423 423 349 330 304 308 374	Lbs. 4.8 4.5 4.9 4.4 3.1 2.6 2.4 4.2 4.2 2.2 2.2 2.2 7.3 0.3 3.3 2.2 2.7
	Ba	con	H	am	Le	rd	Н	ens	E	ggs	Bu	tter
913	289 287 410 529 554 523 427 398 391	Lbs. 3.7 3.6 3.7 3.5 2.4 1.9 1.8 1.9 2.3 2.5 2.6 2.7 2.3	Per 1b. \$0, 269 .273 .261 .294 .382 .479 .534 .555 .488 .488 .455 .453	Lbs. 3.7 7 3.7 3.8 3.4 2.6 2.1 1.9 1.9 2.0 2.0 2.2 2.2 2.0	Per 1b. \$0. 158 .156 .148 .175 .276 .333 .369 .295 .180 .170 .177 .190 .231	Lbs. 6.3 6.4 6.8 5.7 3.6 3.0 2.7 3.4 5.6 5.9 5.6 5.3 4.3	Per 1b. \$0. 213 .218 .208 .236 .286 .377 .411 .447 .397 .360 .350 .353 .369	Lbs. 4.7 4.6 4.8 4.2 3.5 2.7 2.4 2.2 2.5 2.8 2.9 2.8	Per doz \$0. 345 .353 .341 .375 .481 .569 .628 .681 .509 .444 .465 .478 .391	Dozs. 2.9 2.8 2.9 2.7 2.1 1.8 1.6 1.5 2.0 2.3 2.2 2.1 2.6	Per lb. \$0. 383 .362 .354 .487 .577 .678 .701 .517 .479 .554 .517 .555	Lbs. 2.6 2.8 2.8 2.8 2.1 1.7 1.5 1.4 1.9 2.1 1.8 1.9
	Che	ese	М	ilk	Br	ead	Fl	our	Corn	meal	R	ice
913	229 233 258 332 359 426 416 340 329 369 369	Lbs. 4.5 4.4 4.3 3.9 3.0 2.8 2.3 4 2.9 3.0 2.7 2.7	Per qt. \$0.089 .089 .088 .091 .112 .139 .155 .167 .146 .131 .138 .138 .138	Qts. 11. 2 11. 2 11. 4 11. 0 9. 0 7. 2 6. 5 6. 0 6. 8 7. 6 7. 2 7. 2 7. 2	Per 1b. \$0.056 .063 .070 .073 .092 .098 .105 .099 .087 .087 .088 .094	Lbs. 17. 9 15. 9 14. 3 13. 7 10. 9 10. 2 10. 0 8. 7 10. 1 11. 5 11. 4 10. 6	Per 1b. \$0. 033 .034 .042 .044 .070 .067 .072 .081 .058 .051 .049 .064	Lbs. 30, 3 29, 4 23, 8 22, 7 14, 3 14, 9 13, 9 17, 2 19, 6 21, 3 20, 4 15, 6	Per Ib. \$0. 030 .032 .033 .034 .058 .068 .064 .045 .045 .041 .041 .041	Lbs. 33. 3 31. 3 30. 3 29. 4 17. 2 14. 7 15. 6 15. 4 22. 2 25. 6 24. 4 21. 3 18. 2	Per lb. \$0. 087 .088 .091 .104 .129 .151 .174 .095 .095 .095 .101	Lbs. 11. 5 11. 4 11.0 11. 0 9. 6 6. 6 6. 6 6. 5 10. 5 9. 9 9. 2
	Pot	atoes	Su	gar	Co	ffee	Т	ea				
913	. 015 . 027 . 043 . 032	Lbs. 58. 8 55. 6 66. 7 0 37. 0 23. 3 31. 3 26. 3 15. 9 32. 3 35. 7 34. 5 37. 0 40. 0	Per lb. \$0.055 .059 .066 .080 .093 .097 .113 .194 .080 .073 .101 .092 .077	Lbs. 18. 2 16. 9 15. 2 12. 5 10. 8 8 5. 2 12. 5 13. 7 9. 9 10. 9 13. 0	Per lb. \$0. 298 . 297 . 300 . 299 . 302 . 305 . 433 . 470 . 363 . 361 . 377 . 433 . 523	Lbs. 3. 4 3. 3 3. 3 3. 3 3. 3 2. 1 2. 8 8 2. 8 7 2. 3 1. 9	Per lb. \$0.544 .546 .545 .546 .582 .648 .701 .733 .697 .681 .695 .715	Lbs. 1.8 1.8 1.8 1.8 1.7 1.5 1.4 1.4 1.4 1.5 1.4 1.4 1.3				

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### Index Numbers of Retail Prices of Food in the United States

IN TABLE 4 index numbers are given which show the changes in the retail prices of each of 22 food articles,3 by years from 1907 to 1924, and by months for 1924 and for January, February, and March, 1925. These index numbers, or relative prices, are based on the year 1913 as 100 and are computed by dividing the average price of each commodity for each month and each year by the average price of that commodity for 1913. These figures must be used with caution. For example, the relative price of rib roast for the year 1923 was 143.4, which means that the average money price for the year 1923 was 43.4 per cent higher than the average money price for the year 1913. The relative price of rib roast for the year 1922 was 139.4, which figures show an increase of 4 points but an increase of slightly less than 3 per cent in the year.

OF FOOD IN THE UNITED STATES, B'

TABLE 4.—INDEX NUMBERS SHOWING CHANGES IN THE RETAIL PRICES YEARS 1807 TO 1924, BY MONTHS FOR 1

In the last column of Table 4 are given index numbers showing the changes in the retail cost of all articles of food combined. From January, 1913, to December, 1920, 22 articles have been included in the index, and beginning with January, 1921, 43 articles have been used.4 For an explanation of the method used in making the link between the cost of the market basket of 22 articles, weighted according to the average family consumption in 1901, and the cost of the market basket based on 43 articles and weighted according to the consumption in 1918, see Monthly Labor Review for March, 1921 (p. 25).

The curve shown in the chart on page 44 pictures more readily to the eye the changes in the cost of the food budget than do the index numbers given in the table. The chart has been drawn on the logarithmic scale, because the percentages of increase or decrease are more accurately shown than on the arithmetic scale.

<sup>&</sup>lt;sup>3</sup> See note 6, p. 40.
<sup>4</sup> For index numbers of each month, January, 1913, to December, 1920, see Monthly Labor Review for February, 1921, pp. 19-21, and for each month of 1921 and 1922 see Monthly Labor Review of February. ruary, 1923, p. 69.

Table 4.—INDEX NUMBERS SHOWING CHANGES IN THE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN THE UNITED STATES, BY YEARS 1907 TO 1924, BY MONTHS FOR 1924 AND JANUARY TO MARCH, 1925

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VIEW Feb[Average for year 1913=100]

42689°-25†-

	steak	steak	Rib	Chuck	Plate beef	Pork	Ba- I	Ham 1	Lard	Hens F	Eggs 1	But-	Cheese	Milk	Bread	Flour	Corn	Rice	Po- ta- toes	Sugar	Cof-	Tea	arti-
4	71.5	68.0	76.1			1 00	-	1	1 1	7	-	85.3		87.2		95.0	87.6		105.3	105.3			82
1908	73.3	71.2	78.1	-	1	76.1	76.9	77.6	80.5	88.0	86. 1 92. 6	85.5	1	9.6		101.5	920	-	111.2	107.7			200
0.	80.3	77.9	84.6			. 9	010	च	1 00	9	-10	98.8	1 1	94.6		108.2	94.9	1 1	101.0	109.3			88
	90.0	2000	20.00	-		-6	00 40	00 C	AL PC	0 %	0 0	87.9	-	95.0		101.6	10.2	-	130.5				92
H	100.0	100.0	100	100.0	0	10	0	0	0	0	0	0.00	100.0	100.0	100.0	100	100	100.0	100		100.0	100	100
	102.0	108.8	103.0	18.4		04	XO 00	-6	9 4	NIC	10	4 4	103.6	90.0	195.0	125.9	105.1	101.2	8.8	88	38	35	
9	107. 5	109.7	107. 4	106.9	0	3	4	101	0	7	- 00	103.0	116.7	102. 2	130.4	134.6	112.6	104.6	158.	146	100	100	
	124.0	129.8	125. 5	130.6	00 6	1-1	6	C7 :	000	100	40	127.2		125.4	164.3	211.2	192. 2	119.0	252	169	101	106	
00	164.2	174.4	164.1		90	- 4	500	110	0 10	00	00	177.0		174. 2	178.6	218.2	213.3	173.6	223.	205	145	128	
0	172.1	177. 1	167.7	163.8	151.2	40	1-0	60 4	10	0 4	4 1	183.0	188.2	187.6	205.4	245.5	216.7	200.0			157.7	134.7	
	147.2	144.8	139. 4		V 00	4-	4	+ +	0	10	10	135. 1		147.2	155.4	154. 5	130.0	109.2	164.	132	121	125	
100	. 153.9	150.2	143. 4		9	00 1	00		0	001	00 1	144.7		155.1	155.4	142. 4	136. 7	109.2	170.	183	128	127.	
	153.9	149.3	145.5		-0	-10	D 00	401	04	10	000	150.0		159.6	155.4	136.4	146.7	112.6	164.	185.	128	130	
February	152.4	148.0	142.9	2	0	-	9	-	6	00	000	157. 2		157.3	155.4	139. 4	146.7	112.6	164.	187.	130	130.	
March	153.1	148.4	144.4		00	-1-	+-	919	20 00	0 10	30	151.4	166. 1	5.5	155, 4	139.4	146.7	112.6	164	180	140	130	
May.	159.8	155.2	148.5		-10	+	-	-	CO	100	-	120.4	156.6	152.8	155.4	139. 4	146.7	113.8	170	167.	141	130	
June	160.2	156.1	147.0	7-	- 00	20 00	-100	00 00	20	10	90	20.5	155.7	151.7	155.4	145.5	150.0	114.9		152, 7	142	130	
August	160.2	156.1	147.0		00 .	1	0	64 0	63	-	00 -	126. 1	155. 7	158.9	157. 1	154. 5	156.7	117.2	152.9	149.1	145	130.	
October	155.9	151.1	144.4		- 60	0 0	0 10	2-	04	- 00	*0	25.1	157. 5	156.2	157. 1	160.6	166.7	119.5	141.2	160.0	154	132	
November	152.4	147.5	142.4		-0	NO M	100	100	00.0	0 1	40	127.7	157.0	155.1	158.9	163.6	170.0	120.7	129.4	160.0	164	135	
1925: January	152.4	147.1	143.9	T	00	2 00	000	177.0		2 ==	3 44	36.6	162. 4	156.2	164.3	181.8	180.0	123.0	147.1	147.3	173	136.	
February	151.6	146.6	143.4	B		20	**	178.8	3.7.7.	00	90 cm	44 0	165.2	156.2	169.6	20.00	20.00	125.3	152. 9	140.0	174		151

[999]

ount 6 Dec TREND IN RETAIL PRIES OF FOOD IN THE UNITED STATES, JANUARY, 1916, TO MARCH, 1925 ounr Mar. Dec. Mar. Mar. 52 June 22 June Sopt. Mar. Mar. 50 June 50 Sept. Dec Mar. Doc Mar. ALL ARTICLES OF FOOD COMBINED AVERAGE PRICE FOR 1913 = 100 Dec 8 176 [1000]

## Retail Prices of Food in 51 Cities on Specified Dates

A VERAGE retail food prices are shown in Table 5 for 39 cities for March 15, 1913 and 1924, and for February 15 and March 15, 1925. For 12 other cities prices are shown for the same dates, with the exception of March, 1913, as these cities were not scheduled by the bureau until after 1913.

The stock for whoth prices are here quested is called "surjoin" in this city, but in most office cutes to

### TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL

[Owing to differences in trade practices in the cities included in this report exact comparison of prices in the prices shown in this table are computed from reports sent monthly to the bureau by retail dealers,

arra dates, with	1 3197 61		tlant	a, Ga		Ba	ltimo	re, M	d.	Biri	mingl	iam,	Ala.
Article	Unit	Mar.	. 15—	Feb.		Mar.	15—	Feb.	Mar.	Mar.	15—	Feb. 15,	Mar.
		1913	1924	15, 1925	15, 1925	1913	1924	1925		1913	1924	11000	15, 1925
Sirloin steak	do	20.5 18.4 13.0	35.0 30.9 26.1 19.9	36.3 32.2 27.3 20.2	37.5 33.4 28.3	22.0 20.7 18.0	33.7 30.0 20.1	37.6 33.3 30.2 20.5	38.7 34.4 31.1 21.0	24.9 21.3 19.3 16.1	36.3	3 37. 7 33. 4 27. 0 21.	5 37.1 3 33.4 4 27.6 6 22.
Pork chops	do	21.5 31.0 29.0 20.6	24.5 32.8 43.8 34.4	38.0 49.1	41.7 52.2	22.0	32.1 48.2 37.7	36.5 2 51.0 7 39.6	8 40.5	27 3		7 41. 6 47. 4 37.	
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	do Quart 15-16 oz. can Pounddo	10.0	29.3 17.7 14.1 58.4 33.1	31. 9 16. 0 13. 1 55. 1 33. 3	32. 1 0 16. 0 1 13. 1 56. 8 3 32. 6	8.8	13. 6 11. 8 63. 4	0 13.0 8 10.9 4 54.8		10.8 8 45.0	18. 13. 0 62.		0 19. 6 12. 8 58.
Nut margarine Cheese Lard Vegetable lard substi	do do do	25. ( 14. 8	28.0 35.3 17.1 22.0	30.0 35.1 22.8 25.1	29. 5 2 35. 1 8 23 1 1 25.	23.3 14.0	27. 0 36. 3 16. 24.	5 36.1 7 21.0	0 21.1	3 21. 9 15.	8 36. 4 17.	6 34. 6 36. 5 23. 9 21.	. 9 36. . 6 24.
tute. Eggs, strictly fresh	Dozen	20.	9 32.	6 46.	333	21.7	34.	5 55.	2 36.	1 25.	5 33.	1 51	. 7 37
BreadFlourRolled oatsCorn flakes	Pound	6.	0 9.	1 10.3 4 6.5 7 4.6 1 9.5	3 10.3 9 6.9 6 4.5 5 9.	2 5.4 9 3.2	4 8. 2 4. 5 3. 8.	8 9. 3 6. 5 4. 4 9.	1 9.5 1 5.4		8 5. 1 3.	5 7 5 4 2 9	1.4 10 1.2 7 1.6 4 1.7 9 1.4 12
Wheat cereal	28-oz. pkg Pounddododododododo	8.	26. 21. 6 8. 12. 0 3.			1	22. 18. 0 9. 9.	9 19. 7 10. 3 9.	9 23. 2 19. 4 10. 7 9	0	25. 19. 2 9.	7 11	f. 0 11
OnionsCabbage Beans, bakedCorn, cannedPeas, canned	3.		1 7	7 9	2 8	9	6. 8. 11.	8 6. 6 11. 9 17.	0 5. 4 11. 1 17.	1 8 9 3	6. 13. 16.	.9 6 .3 13 .5 18	7. 6 6. 1 3. 3 1 8. 8 1 2. 6 2
Tomatoes, canned Sugar, granulated Tea Coffee	Pound	5.	6 10. 0 93	4 13. 9 8. 1 96.	6 13. 5 8. 0 97.	6 1 5. 2 56.	1 10.	A 71		0 5.	2 10	. 2 90	8.5 0.6 9
Prunes Raisins Bananas Oranges	do		18	5 16. 8 15. 0 27.	9 17. 4 15. 2 28. 8 39.	1	17. 14. 29.	. 2 16. .0 13. .1 27.	0 16.	3	20 17 40	1.5 1. 1.5 1. 1.8 3: 1.2 4:	9.5 1 5.9 1 8.6 3

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the cities included in this report, it would be known as "porterhouse" steak.

## ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES

one city with those in another can not be made for some articles, particularly meats and vegetables. Also, and since some dealers occasionally fail to report, the number of quotations varies from month to month.

. I	Boston,	Mass		Bri	idgepe Conn	ort,	В	uffalo	, N. Y	7.	But	tte, M	ont.	Ch	arlest	on, S	. c.
Mar.	15—	Feb. 15,	Mar. 15,	Mar. 15,	Feb. 15,	Mar. 15,	Mar.	15—	Feb. 15,	Mar. 15,	Mar. 15,	Feb. 15,	Mar. 15,	Mar.	15—	Feb. 15,	Mar. 15.
1913	1924	1925	1925	1924	1925	1925	1913	1924	1925	1925	1924	1925	1925	1913	1924	1925	1925
Cts. 1 34. 6 33. 0 23. 4 17. 7	49. 8 38. 6	Cts. 1 60. 6 48. 0 37. 8 24. 5 16. 5	49, 2 37, 9 25, 0	38. 6 34. 9	34. 9 25. 2	39. 5 35. 5	19. 0 17. 3 15. 3	31. 1 27. 8 20. 8	28. 3 21. 6	32. 7 29. 3 21. 9	16. 2	Cts. 28. 0 24. 3 23. 6 16. 5 11. 3	Cts. 28. 5 25. 2 24. 5 17. 3 11. 9	20. 0 19. 3 15. 0		30. 5 26. 4 18. 9	27. 7 20. 1
22. 2 25. 4 28. 8 21. 8 24. 2	29. 9 36. 0 49. 3 39. 4 39. 6	32. 5 41. 3 53. 5 39. 2 39. 4	44, 4 56, 4 40, 1	42, 4 49, 1 38, 2	44. 8 53. 1	49. 0 58. 0 39. 5	21. 0 25. 0 17. 3	29. 3 44. 6 32. 2	35. 8 46. 3 34. 3	50. 3 35. 4	32. 7	27. 3 48. 3 51. 5 38. 1 31. 1	35. 0 53. 7 55. 0 38. 0 31. 8	24. 3 26. 7 21. 3	27. 0 33. 8 41. 3 40. 6 35. 0	35. 9 44. 7 39. 1	40. 2 47. 8 41. 1
8. 9 41. 4	29. 5 12. 9 12. 7 60. 4 30. 5	30. 4 14. 9 11. 5 50. 4 34. 2	54. 2	15. 0 12. 5 59. 0	11. 1 50. 8	15. 0 11. 1 53. 7	40. 6	11.7	28. 7 14. 0 11. 0 49. 4 29. 9	14. 0 11. 0 56. 8	11.8	30. 9 14. 3 10. 9 47. 7	10. 9	11. 7	26. 8 18. 5 12. 0 58. 4 30. 8	18. 0 11. 2 49. 9	18. 2 11. 3 55. 1
22. 4 15. 7	27. 9 39. 8 18. 3 22. 9	29. 5 38. 0 23. 7 26. 3	37. 6 23. 4	38. 9 17. 1	21. 9		4.1	28. 1 36. 3 16. 4 23. 8	21. 5	22.6	20. 9	32. 7 35. 7 26. 7 28. 4	32, 7 35, 8 25, 7 27, 6	15.0	31. 5 34. 3 19. 4 23. 9	33, 1 23, 4	23. 6
32.8	49, 6	70. 7	55. 4	46. 0	71. 4	48. 9	. 7	37.7	58. 8	42. 5	37. 5	50. 3	45. 7	26. 3	34. 1	54. 8	34. 9
5. 9 3. 7 3. 5	8. 4 5. 1 5. 2 8. 8 9. 6	8.9 7.1 6.4 9.3 11.3	9. 4	7. 2 8. 3	8. 7 6. 6 7. 7 8. 6 10. 4	7.7 8.6	2.9	8.4 4.4 4.3 7.9 8.9	5. 2 8. 4	8.8	4. 1 6. 7	11. 9 6. 8 6. 4 7. 8 12. 1	11. 7 6. 8 6. 4 7. 8 12. 3	2.3	10. 8 5. 8 3. 4 9. 3 9. 9	7. 5 4. 1 9. 4	7. 8 4. 1 9. 4
9. 2	24. 0 22. 7 11. 2 10. 2 2. 9	24. 4 22. 7 11. 5 10. 8 2. 3		23. 1 10. 1	23. 7 23. 2 11. 2 10. 7 2. 4	11. 1	9. 3	24. 0 20. 8 9. 7 10. 1 2. 4		22. 2 10. 5 10. 3	20. 8 10. 1 10. 6	26. 9 19. 6 11. 2 10. 9 2. 2	26. 8 19. 6 11. 6 11. 1 2. 2	5. 6	24. 7 19. 6 7. 0 10. 9 3. 2	8. 5 11. 1	19. 2 8. 8 11. 1
*****	6, 2 8, 2 14, 5 18, 6 21, 4	6. 4 5. 9 14. 0 20. 3 22. 1	6. 0 6. 5 13. 9 20. 3 21. 7	7. 2 12. 4	5. 6 5. 5 11. 9 20. 4 22. 0	6. 2 11. 9 20. 5		7. 1 5. 6 10. 8 15. 3 16. 4	5. 9 3. 2 10. 5 16. 6 16. 5	10. 6 17. 4	5. 2 6. 9 16. 5 15. 2 16. 3	6. 0 7. 4 14. 7 16. 9 17. 1	6. 8 7. 5 14. 7 16. 9 17. 1		6. 6 6. 7 10. 9 14. 4 17. 5	16. 6	4. 4 10. 7 17. 3
5. 3 58. 6 33. 0	12. 4 10. 4 70. 1 47. 3	13. 8 7. 6 74. 9 57. 1	13. 8 7. 4 74. 6 57. 1	9. 8 58. 6	14. 8 7. 3 57. 9 49. 3	7. 1 58. 0	45. 0	13. 8 10. 1 64. 6 37. 8	7. 3 65. 9	7.3 68.2	12.3 83.3	14. 1 9. 2 81. 9 55. 9	14. 4 9. 3 82. 5 56. 4	50.0	10.8 10.0 71.6 34.9	7.3 71.8	7. 2 71. 8
*****	17. 6 14. 9 50. 5 41. 1	16. 9 13. 8 50. 0 50. 0		14. 9 36. 7	14. 2 37. 5	14. 0 38. 6		16. 4 14. 2 49. 0 48. 8	13. 6 44. 6						17. 8 15. 2 41. 9 30. 5	14. 4 37. 9	14. 4 38. 6

Per pound.

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in rs,

e.

ar, 5, 25

7.8 7.8 3.4 7.6 2.0 3.6

5.6 3.5 0.8 8.5 4.3

1.9 9.0 2.6 58.6 37.9

34.1 36.8 24.1 22.3

37.5

10.4 7.2 4.6 9.8 12.1

25.6 19.6 11.0 12.4 3.7 7.9 6.1 13.3 18.8 22.2

13.0 8.2 91.7 54.8

19.7 15.6 39.5 48.5

es in-

# TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

uffices at a same or i	oction cotts	ing he	Chica	go, III	Ar, Jun	Cit	neinn	ati, O	hìo	Ch	evela	nd, O	hio
Article	Unit	Mar.	15—	Feb.	-	Mar.	15-	Feb.		Mar.	15—	Feb.	Ma
diffunt		1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15.
Sirloin steak	Pound	Cts. 22. 0 18. 9	40. 0	Cts. 40. 6	Cts. 41. 6 31. 7	Cts. 22, 4 19, 9	Cts. 34. 0	34 9	36 9	Cts. 23.7	Cts. 35. 7	Cts. 36, 5	37
Rib roast	do	19. 4	31. 3	31. 5	32. 3 21. 6 12. 7	19. 0	27.8 18.0 14.3	27. 9 18. 5 14. 4	32. 8 28. 8 19. 4 15. 0	19. 2 16. 2 11. 8	29. 6 25. 4 20. 1 11. 6	29. 6 26. 2 20. 2 11. 6	
Pork chops Bacon, sliced Ham, sliced Lamb, leg of	do do do	17. 9 29. 8 31. 3 19. 7 19. 9	26. 0 41. 4 46. 1 36. 6 34. 6	27. 5 42. 8 48. 7 37. 2 36. 3	35. 0 47. 7 51. 7 37. 7 37. 3	20. 6 25. 0 26. 8 17. 4 23. 3	26.3 28.8 45.1	27. 4 35. 5 49. 0	35. 9 39. 2 51. 3	19. 8 25. 6 33. 5	26. 4 36. 5 48. 0	31. 2 41. 5 49. 8 37. 1	40. 46. 54. 37.
Salmon, canned, red Milk, fresh Milk, evaporated Butter Dleomargarine	Quart 15-16 oz. can Pound	8. 0 40. 4	32. 5 14. 0 11. 5 55. 8 26. 9	32. 9 14. 0 10. 7 47. 0 27. 9	33. 1 14. 0 10. 7 55. 9 27. 6	8. 0 42. 9	27. 6 14. 0 11. 4 57. 5 31. 5	29, 0 12, 0 10, 6 49, 6 31, 4	29. 0 12. 0 10. 6 56. 5 31. 0	8. 8 43. 4	11. 4 58. 3	30. 5 14. 0 10. 6 50. 9	30. 14. 10. 59
Vut margarine Cheese .ard Vegetable lard substitute Eggs, strictly fresh	do do do Dozen	25. 0 14. 6	25. 8 40. 1 17. 7 25. 1 35. 9	26. 5 40. 3 22. 6 26. 1 53. 6	26, 6 40, 2 22, 6 26, 1 41, 9	21. 6 14. 0 20. 5	29. 1 35. 6 15. 4 24. 7 29. 8	28. 8 36. 7 20. 9 25. 6 50. 5	12.50	23. 0 16. 1 27. 2	30. 6 36. 8 18. 7 26. 6	30, 5 34, 9 24, 0 27, 1	30 35 24 27
Bread	Pounddododododododododo	6. 1 2. 7 2. 9	9. 7 4. 1 5. 4 8. 5 9. 4	10. 1 5. 9 6. 5 8. 6 10. 2	10. 1 5. 8 6. 5 8. 8 10. 2	4.8 3.4 2.5	8. 4 4. 5 3. 6	9.3 6.2 4.5 8.9	9.3 6.2 4.6 8.9	5. 5 3. 2 2. 7	7. 9	8. 1 6. 2 5. 3 8. 8	8 6 5 9
Wheat cereal	28-oz. pkg	9. 0	23. 4 18. 1 10. 3 10. 0 2. 6	24. 4 20. 1 11. 4 10. 2 2. 4	24. 3 19. 9 11. 5 10. 1 2. 3	8.8	16. 7 10. 0 8. 0	19.3 10.6 8.8	19. 5 10. 5 9. 0		9. 5 9. 1	21. 1 10. 7 9. 7	21 10 9
Onions	do No. 2 can dodo		5. 9 6. 6 12. 6 15. 2 17. 3	5 0	5.9	JUL 25	5. 0 6. 5 11. 9 14. 1 17. 6	4. 5 11. 3 15. 8	5. 1 11. 4 15. 9		5. 7 7. 6 12. 6 16. 4 17. 6	12.4 17.8	12 12 18
Comatoes, canned	Pounddodododo	4. 9 53. 3 30. 0	14. 1 10. 0 72. 9 41. 1	7.4	73. 2	5. 1 60. 0 25. 6	74.5	7. 6 75. 0		50.0	67.1	7. 9 68 5	69
Prunes Raisins Bananas Oranges	do Dozen		18. 7 16. 5 46. 1 37. 8	18.6 15.8 41.0 49.0	18.4 15.7 41.8 51.4		45.0	14. 3 38. 6	17. 7 14. 4 39. 2 46. 7		15. 5 50. 7		14 52

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "rump" in this city, but in most of the cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

olun	bus,	Ohio	I	Dallas	, Tex	Ottore	De	enver,	Colo	ee - 15	D	etroit	, Mic	h.	Fa	ll Riv	er, Ma	iss.
-		Mar.	Mar.	15-	Feb.		Mar	. 15—	Feb.	Mar. 15,	Mar	15—	Feb. 15,	Mar. 15,	Mar	. 15—	Feb. 15,	Mar. 15,
15, 924	15, 1925	15, 1925	1913	1924	15,	15, 1925	.1913	1924	15, 1925		1913	1924	1925	1925	1913	1924	1925	1925
Cts. 37. 3 31. 7 28. 6 22. 2 14. 9	31. 3 29. 1 21. 8	32. 3 28. 9 22. 2	20. 8 18. 8	34. 3 29. 3 27. 5 20.	1 33. 8 30. 0 27. 7 21.	7 34. 8 4 30. 6 8 28. 1	19. 6 16. 6 14. 6	28. 9 24. 5 21. 5 17. 3	24. 8 21. 1 16. 4	30. 0 25. 8 21. 8 1 7. 0	24. 0 19. 4 19. 8 15. 4	37. 1 29. 7 26. 8 19. 8	37.4 30.3 37.4 30.3 27.4 19.5	39. 5 31. 3 29. 2 3 20. 8	132. 0 25. 0 22. 0 17. 0		42. 9 27. 9 21. 7	28. 3 21. 4 13. 3
24. 7 37. 2 45. 3 42. 5 34. 6	29. 2 42. 4 47. 2 40. 6	35. 8 44. 3 50. 7 39. 6	37. 31. 22.	0 38. 3 49. 0 42.	5 40. 2 51. 2 41.	2 42. 5 55. 3 43.	27. 7 28. 4 16.	0 40. 8 3 45. 9 34.	42. 49. 49. 49. 449. 449. 449. 449. 449.	8 46. 1 6 52. 1	23. d 7 25.	35. 5 48. 2 37.	7 40. 5 51. 8 39.	6 45. 5 55. 3 40.	0 25. 2 29. 8 19.	35. 1 7 45. 9 3 40. 0	38. 8 46. 9 40. 7	41. 1 48. 6 42. 4 41. 1
32. 0 13. 0 11. 8 55. 6 30. 2	32. 11. 10. 47.	32 0 11. 7 10. 8 54.	0 10. 7 - 5 39.	0 57	0 15.	0 15. 4 13. 3 57.	0 8. 4 2 39.	32. 4 11. 12. 0 54. 31.	7 12. 1 10. 6 46.	0 10. 5 10. 3 44.	5 8. 7 40.	6 58.	0 14. 6 10. 0 50.	0 14. 7 10. 4 58.	0 9. 7 6 39.	_ 13.	0 14.0 5 12.4 0 49.	13. 0 4 12. 6 3 51. 3
28. 36. 15. 25. 30.	28. 2 37. 6 21. 0 25.	8 28. 4 36. 1 21. 9 25.	8 5 20. 7 17.	0 36 0 21 21	. 7 24 . 4 23	1 33. 9 37. 7 25. 6 24. 7 32.	8 26. 2 16. 8	3 17. 25.	8 38. 8 23.	2 39. 8 24. 6 25.	1 21. 2 16.	2 17.	4 36. 8 23. 6 26.	7 36. 1 23. 5 26.	5 24. 6 15.	0 17. 25.	6 37. 1 21. 4 26.	9 38.4 8 22.4 4 27.
7. 4. 3. 9.	7 8. 2 6. 7 4. 4 9.	1 8. 4 6. 5 4. 5 9.	1 5. 4 3. 6 2. 5	6 8	1.7 8 1.5 6	8.8 8.3 6.4 5.4 5.7	3 2 4 2	4 3.	6 5.	5 5. 5 4. 0 9.	5 3. 4 2. 0	7 4 8	2 6 7 5 9 9	1 6 5 5 2 9	3 3		9 6. 1 7. 6 9.	5 6. 7 7. 6 9.
	6 23. 2 20. 3 10. 3 9	9 23. 9 21. 9 10. 5 9	9 9 9	2 2 .3 1 1	5.3 2	5. 7 26 1. 4 21 3. 1 13 2. 2 12	.7	24 19 .6 9	9 19 9 10 2 10	. 4 19 . 3 10 . 9 11	.0	.4 9 .4 9	0 20	0.7 21 0.7 11 0.2 9	. 0 . 2 - 10 . 3 . 7 1	10	6 23 2 10 2 10	
6. 7 13 13	4 6 1 4 7 13 4 17	. 4 6 . 6 4 . 3 13 . 3 17		1	7. 4 5. 6 4. 9 1 7. 2 1	7. 7 6. 0 4. 3 9. 2	. 4	4 4 14 18	. 6 6 . 0 14 . 1 17	5.5 4.2 7.9 18	5. 4 1. 8 1. 2 3. 3	1	7. 2 2. 1 5. 7	3.5	5. 7 4. 9 2. 2 7. 9	8 12 16	. 2 6 . 7 12 . 2 17	.4 6. .0 6. .6 12 .4 17
10	6 14	1.4 14	3.0	5. 7	4.4	4.7 1	4.8	5. 4 1	1.0	8.5 1	7. 4 4	5. 0 1 3. 3 6 9. 3 3	4.3 6 9.8 5	7. 6 1. 7 2. 2 5	4. 1 7. 5 9. 6 2. 7	5. 2 10	0. 5 3. 9 5. 7 5. 5	3.8 13 7.7 7 9.7 58 3.7 54
19	000	8.6 4.7 9.4 3			19. 5 16. 9	20.6 2	1. 0 6. 9 2. 0	1 1	8.8 1 5.3 1 4 7 1	8.8 1 4.4 1 3.8 21 4.8 4	8. 1 4. 5 4. 0	1 1 1	7.7 1 5.9 1 6.8 3	9. 1 1	9. 2 5. 1 6. 9 2. 0	1	8. 5 14 1. 4 31	5. 0 14 4. 5 14 0. 3 2 16 1. 3 48

Per pound.

#### MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

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	. , , , , , , , , , , , , , , , , , , ,	Hou	ston,	Tex.	Ind	ianap	olis, l	nd.	Jack	ksonv	rille,	Fla.
Article	Unit		Feb.	Mar.	Mar	15—	Feb.	Mar.	Mar.	15—	Feb.	Ma
5001   1004   2000   1005	DEL 1950 STA	15, 1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 192
Sirloin steak Round steak Rib roast Chuck roast	do dodo	28. 0 23. 3 18. 2	29. 1 23. 2	29. 3 23. 6 19. 2	23. 2 17. 2 15. 5	34. 2 26. 2	32. 8 26. 6 22. 4	36. 3 34. 8 27. 6	25, 8 20, 3 25, 0 15, 8	30. 8 28. 5 18. 2	34.5	35. 29. 25.
Pork chops Bacon, sliced Ham, sliced Lamb, leg of	do	45. 4 32. 5	47. 7	44. 1 49. 7 34. 2	28. 0 29. 5 18. 7	47.5	38. 3 49. 3 42. 5	52. 8	26. 0 26. 8 20. 8	32, 5 44, 0 35, 5	35. 5 46. 1 41. 0	39. 50. 36.
Salmon, canned, red	Quart 15-16 oz. can. Pound	29. 2 15. 8 13. 0 56. 1 33. 3	11. 9	11.9 55.3	8.0	12.0 11.6 54.1	10. 5	11.0 10.4 57.2	12.5	12.9	19. 3 11. 8 53. 5	18 11 5 5 8
Vut margarine Cheese Lard Vegetable lard substitute Cogs, strictly fresh	do do do Dozen	30. 2 33. 3 19. 9 17. 8 28. 3	34 9	34 4	20. 5 15. 2	35. 8 14. 3 25. 4	21. 1 26. 5	37. 4 21. 9 26. 5	22. 5 15. 3 30. 0	18. 1 23. 3	34. 4 22. 6 24. 7	34 23 24
Bread Flour Corn meal Rolled oats Corn flakes	Pounddo	7. 0 4. 8 4. 2 9. 0 9. 7	8. 9 6. 4 5. 3 9. 3 11. 6	8. 9 6. 6 5. 2 9. 5 11. 9	3.3 2.6	3.6	6. 1 4. 8 7. 9	6. 1 4. 8 7. 9	3.8	5. 4 3. 8 9. 1	6. 9 4. 4 9. 7	6 4 9
Wheat cereal	do	10.3	4.3	11.0		24. 2 18. 5 10. 8 8. 8 2. 1	20. 1 10. 7 9. 5	20. 3 10. 9		11 0	20.8 9.9 10.7	3 20 1 10 1 10
Onions Cabbage Beans, baked Corn, canned	No. 2 can dododo	12.8 15. 2 18. 1	12. 8 18. 6	5. 1 12. 8 18. 9		5. 4 6. 3 13. 1 13. 6 16. 2	4. 3 12. 5 17. 1	12.0		17. 6		1 4 11 20
omatoes, cannedugar, granulatedoffee	do	12. 1 10. 0 74. 5 36. 3	78. 9	7. 5 78. 5	5. 8 60. 0	79.5	7. 9 81. 1	7. 9 81. 1	5. 9 60. 0 34. 5	10. 8 89. 0	12. 4 8. 1 96. 4 51. 5	97
Prunes Raisins Bananas Oranges	do Dozendo	18. 1 16. 0 31. 8 38. 8		15. 4 30. 0		17.4	20. 5 15. 8 31. 2 39. 2	15.8		17.8 34.3	17. 9 15. 5 26. 9 24. 8	15

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city. But in most of the cities included in this report it would be known as "porterhouse" steak.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES—Continued

ans	sas (	City,	Mo.	Lit	tle R	ock, I	rk.	Los	Ange	eles, (	Calif.	L	ouisv	ille, I	Cy.	Mar	nchest	er, N	. н.
ar. I	5-	Feb.	Mar.	Mar	. 15—	Feb.		Mar	. 15—		Mar.	Mar	. 15-		Mar.	Mar.	15—	Feb. 15.	Mar.
13 1	924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924		1925
8 2 7 7	Cts. 37, 1 30, 8 25, 5 19, 0	25. 0 18. 1	37. 5 31. 2 25. 7 18. 5	Cts. 24. 4 19. 4 18. 4 15. 3 12. 0	32. 9 28. 0 25. 2 18. 1	24.0	32. 8 28. 8 25. 0 19. 9	Cts. 22. 8 20. 4 19. 0 16. 0 12. 7	28. 9 27. 9 19. 4	35. 9 28. 3 28. 3 18. 7	36. 7 30. 6 28. 6 19. 2	18.9	31. 5 27. 8 23. 7 18. 0	32. 3 28. 2 23. 8	33. 0 29. 0 24. 1 18. 1	Cts. 135. 2 28.6 19. 6 16. 8	154. 9 43. 3 27. 8	1 55. 1 43. 8 28. 0 20. 9	43.
2 4 9 9 3	23. 4 38. 8 45. 0 33. 9 31. 3	27. 0 42. 3 48. 1 35. 1	46. 9 52. 6 34. 6	20. 0 34. 0 28. 8 20. 8 17. 9	37. 1 44. 7 36. 3	38. 9 46. 8 42. 1	46. 3 51. 8	19. 2	46. 4 57. 1 36. 0	49. 4 58. 9 28. 0	54. 8 60. 8 37. 3	2 19. 6 8 27. 8 8 27. 9 8 18. 1 0 23. 1	29.7 40.3 37.0	26. 6 35. 6 42. 8 37. 8 36. 6	3 40. 6 5 45. 9 5 38. 8	22. 6 27. 8	31. 1 37. 4 37. 4	37. 3 41. 0 38. 3	3 44. 3 38.
.7		34. 4 13. 0 11. 9 50. 6	13. 0 11. 8 5 58. 0	10. 0	15. 7 13. 6	12. 0 51. 9	15. 3 12. 2 57. 2	10. 0	10. 3	15. 0 9. 9 54. 8	15. 3 10. 6 55.	8.8	13. 0 12. 3 58. 7		3 12. 0 5 11. 7 8 59. 1	42. 2	13. 0 13. 7	12. 52.	12
.5	27. 6 36. 7 17. 1 25. 9 28. 8	37. 8 22. 8 27. 2	37. 1 3 23. 6 2 26. 4	21. 7	18. 7 20. 3	37. 8 7 23. 1 3 23. 6	37. 8 23. 9 23.	19. 5 17. 9		38. 4 5 23. 4 5 25.	38. 4 23. 7 25.	0 21. 7 9 15. 3	33. 2 15. 0 26. 8	21.	6 37.3 1 22.3 0 27.0	3 21. 8 5 16. 2	17. 2 23. 3	36. 2 21.	9 22 1 26
1.0	8. 2 4. 3 4. 6 9. 0 9. 9	6. 4 5. 9 9. 3	6. 3 9 5. 9 3 -9.	6.63	3.	6. 6 5 4. 3 4 10. 4	6.	7 3. 6 5 3. 1 2	4. 4. 9.	6. 6. 5. 9.	6. 9 5. 8 10.	4 5. 3 3. 8 2. 1	5. 6 2 3. 8.	7. 4. 8.	0 6. 5 4. 7 8.	9 3.4 3 3.6 7	4 4.8 6 4.8	8 6. 8 5. 8 8.	7 6 8 8
3. 7	24. 9 21. 7 9. 3 9. 9	21. 8 10. 9 10.	8 21. 6 10. 4 10.	5 8.	20. 8. 10.		21. 10. 10.	3 7.	10.	3 17. 2 10. 3 10.	7 17. 7 11. 3 10.		1 8.	6 19. 6 10. 6 9.	6 19. 8 10. 6 9.	5 6 8. 6	5 9. 9.	5 24. 3 10. 9 9.	
	7. 1 5. 9 14. 0 14. 4 16. 0	4. 13.	9 7. 5 4. 9 13. 9 16.	6 9 8	6. 6. 12. 15.	2 5. 5 12. 2 20.	8 4. 5 12. 1 20.	3 4	5. 5. 12. 15. 17.	8 5. 8 12.	1 4. 2 12. 7 17.	5 0 	5. 7. 11. 13. 16.	1 4. 5 11. 9 17.	9 5. 9 11. 7 18.		6. 14. 18.	3 4. 4 14. 1 18.	1 2 14 5 18
5. 6	10. 6 80.		2 8. 3 83.	4 1 5. 2 50. 0 30.	0 87.	3 8. 7 99.	4 8.	7 5. 9 54.	2 10. 5 68.	3 7	0 216. 6 7. 0 75. 2 54.	5 5.	12. 1 10. 5 72. 5 39.		9 7. 3 74.	9 5. 2 45.	6 10. 0 58. 0 43.	6 7. 9 61.	2 6
	16.	8 16.	5 17. 0 16. 8 12. 1 50.	3	- 18. 311.	6 18. 5 16. 5 *10. 2 43.	6 16. 3 *10.	3	14. 812.	9 11. 2 11.	5 16. 7 11. 1 *11. 5 42	5	14.	8 16. 9 14. 7 35. 5 38	5 14. 0 35.	9	14.	6 16. 9 14. 5 310. 5 44.	3 81

No. 21 can.

Per pound.

#### MONTHLY LABOR REVIEW

# TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

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Mol

Mar. 15, 1924

Cts. 31. 5 30. 3 25. 0 20. 2 15. 5

28. 8 38. 2 41. 0 37. 0 35. 6 28. 5 20. 0 12. 8 33. 4 28. 2 27. 5 8. 8 17. 1 19. 5 27. 5 8. 8 13. 7 8. 5 9. 3 23. 5 10. 2 10. 2 10. 2 10. 2 10. 2 10. 2 10. 3 10. 4 10. 5 10. 5

Manchester, IV. II.	Marine M	Me	mphi	s, Te	nn.	Mi	lwaul	kee, W	vis.	Min	neapo	lis, M	linn.
Article	Unit	Mar.	15—		Mar.	Mar.	15—	Feb.		Mar.	15—	Feb.	Mar
sket son son our of	1 18881 May 18	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15.
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do	Cts. 22. 1 18. 4 18. 7 14. 4 11. 4	32.8	32. 7 29. 1	33. 1	21. 5	32 0	36. 0 31. 6 25. 9 22. 0	Cts. 36. 5 31. 6 26. 8 22. 3 13. 1	20. 0 18. 5 18. 2	25. 8 23. 8	25. 1 23. 1 17. 6	29. 7 26. 1 23.
Pork chopsBacon, slicedHam, slicedLamb, leg ofHens	do	962 41	49 1	46 1	40 1	244	49 5	39. 2	36. 9 42. 6 47. 1 38. 5 36. 2	25. 0	38. 1	43. 7 47. 0 35. 6	47.3 51.7 35.7
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15-16 oz. can Pound do	10. 0	35. 1 14. 7 13. 0 57. 2 29. 5	36. 6 15. 3 11. 5 47. 3 37. 5	36. 7 15. 3 11. 6 54. 4 37. 5	7. 0	34. 1 11. 0 11. 5 53. 9 28. 2	33. 0 10. 0 10. 9 46. 6 28. 9	29. 7 10. 0 10. 9 55. 7 28. 0	7. 0	36. 9 12. 0 12. 7 53. 7 28. 8	31. 4 11. 0 11. 2 44. 3 29. 1	11. ( 11. 5 51. 6
Nut margarine													27. 34. 22. 27. 33.
BreadFlourCorn mealRolled oatsCorn flakes	Pound	6.0	9.0	9.4	9. 5 7. 0 4. 4	5. 6 3. 1 3. 3	9. 2 4. 1 4. 4 7. 7	9. 2 5. 8 5. 8	9. 2 5. 8 5. 7 8. 8	5, 6	8.9 4.3 4.4 8.6	10. 0 5. 9 5. 7 8. 6	10. 5. 5. 8.
Wheat cereal	28-oz. pkg Pounddo	7. 5	24. 9 18. 7 8. 8 9. 7 3. 1	24. 6 19. 5 9. 7 9. 6 3. 0	24. 7 19. 5 9. 7 9. 9 3. 0	9. 0	23. 9 17. 9 10. 5 9. 5 2. 2	9. 6	24. 0 18. 7 11. 0 9. 6 1. 9	9. 1	9, 5	18. 6 10. 7 9. 4	18. 11. 9.
Onions	do No. 2 can		5. 7 4. 9 13. 3 14. 6	6. 1 4. 3 12. 2 17. 7	3. 9 12. 2 17. 6		6. 5 12. 0 15. 8	4. 5 11. 6 17. 7	11.6 17.8			3. 4 13. 6 16. 5	3. 13. 16.
Fomatoes, canned	Pounddododo	5. 5 63. 8 27. 5	12.8 10.7 83.8 42.1	12.6 7.8 92.8 52.8	12.7 7.7 95.1 52.1	5. 4 50. 0 27. 5	14. 0 10. 2 71. 4 37. 7	7. 3	15. 0 7. 2 71. 6 50. 1	5. 6 45. 0	14.7 10.5 65.3 44.7	8. 1 62. 5	7. 62.
PrunesRaisinsBananasOranges	do		18.3	16. 3 14. 9 34. 0 42. 9	16. 4 14. 7 33. 0 48. 3		15. 2 13.0	14. 5 3 10.5	17. 4 14. 6 3 10.2 50. 1		16. 1 14.2	17.0 14.7 3 12.6 45.7	14.8 8 12.8

1 Whole.

No. 3 can.

### RETAIL PRICES OF FOOD

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

Mo	bile,	Ala.	N	ewarl	, N.	J. beri	New	Hav	en, C	onn.	Nev	w Orl	eals,	La.	Ne	w Yo	rk, N.	Y.
far.	Feb.	Mar.	Mar.	15—		Mar.	Mar.	15-	Feb. 15,	Mar. 15,	Mar.	15—	Feb. 15,	Mar. 15,	Mar.	15—	Feb. 15,	Mar
15	15.	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	1925		1913	1924		1925	1913	1924	1925	1925
0.3 25.0 20.2	Cts. 31. 5 30. 0 25. 6 20. 0 15. 5	31. 9 30. 4 26. 5 20. 0	20. 0 16. 8	42. 1 34. 6	34. 6 22. 6	42. 9 35. 4 24. 4	26. 6 23. 0 18. 0	50. 4 41. 7	42. 0 34. 2 25. 6	50. 5 42. 0 34. 4 25. 4	20. 0 17. 5 19. 6 13. 0	33. 9 29. 5 30. 0 21. 6	32. 8 29. 3 28. 4	29. 5 28. 7 20. 6	25. 4 23. 8 21. 7 15. 8	40. 0 35. 8 22. 8	37. 3 23. 3	41. 37. 23.
11. 0	34. 6 39. 3 44. 2 37. 5 34. 4	42. 7 45. 7 40. 6		38. 3	38. 3 48. 2 39. 4	43. 5 52. 1 39. 5	26. 7 30. 0	37. 4 49. 9 38. 0	41. 9 54. 1 38. 1	45. 6 55. 9 39. 6	26. 0 20. 5	36. 3 40. 6 41. 1	39. 4 48. 7 39. 1	42. 5 51. 0 37. 9	23.6 28.5 17.3	28. 9 34. 7 47. 8 36. 3 37. 0	40. 4 53. 5 35. 8	43. 55. 36.
28. 5 20. 0 12. 8 51. 0	200	20. 6 20. 0 11. 5 56. 0	9.0		16. 0 10. 6 50. 7	10. 6	9. 0 39. 0	12.3	16. 0 11. 9 49. 9	16. 6 11. 8 52. 7	10.0	15. 0 11. 7 59. 4	10.9	14. 3 10. 9 53. 9	9.0	28. 6 14. 0 11. 7 56. 1 30. 8	15. 0 10. 7 49. 9	15. 10. 57.
28. 2 35. 6 17. 1	29. 2 36. 0 23. 2 21. 8	29. 2 36. 0 23. 2 21. 7	24. 5 15. 7	18.3	37. 9 21. 9 25. 0	38. 6 23. 1	22. 0 15. 3	17.7	37.7 22.3	37. 4 22. 8 25. 2	21. 4 14. 6	16. 5 21. 2	36. 1 5 21. 4	35. 8 21. 8 22. 9	19.8	28. 4 37. 8 18. 3 25. 7 42. 6	37. 6 22. 9 26. 6	37. 23. 26.
8. 5. 1 3. 7 8. 8 9. 3	7. 1 4. 7 8. 7	7. 2 4. 7 8. 7	3.6	4.6	6. 4 6. 7 8. 4	6. 4 6. 7 8. 4	3. 1	4. 6 6. 2 9. 6	6. 5 6. 6 9. 5	6. 4 6. 4 9. 5	3.8	5. 4 3. 8.	4 7.4 7 4.6 6 9.5	7. 4. 6 9. 1	3. 2	4.7	6. 7 6. 8 8. 9	6.
23. 3 19. 4 8. 9 10. 3	5 24. 3 4 19. 3 6 10. 0 2 10. 4	9 19. 8 0 10. 1 4 10. 4	9. 0	20. 1 9. 8 9. 1	20. 8 10. 4 10. 5	21. 10. 10.	9. 3	10. 9.	5 22.7 1 11.4 8 10.1	22. 8 111. 1 1 10.	7.	9.	6 10. 2 9. 3 9.	10. 10. 7 9.	8.0	20. 4 9. 3	21. 10. 3 10. 3 2 11. 0	20. 3 10. 3 11.
5. 12. 15. 16.	5 4.1 5 11.1 3 17.1	8 4.4 5 11.6 3 17.6		8. 11. 15.	2 5. 6 3 11.	5. 11. 17.	9	11.	5. 0 9 12. 0 0 18. 8	5. 11.	9	5. 4. 12. 13. 16.	6 4. 4 12. 7 17.	3. 12. 5 18.	8	6. 6. 6. 11. 5 15. 6 17. 8	4. 11. 16.	6 11 8 17
11. 10. 74. 40.	12. 4 7. 7 79.	7 12.1	5. 53. 8	2 10.	3 61.	1 12.	1 5.	<sup>3</sup> 21. 10. 57.	7 59.	8 7.4 4 59.	5. 5. 2 62.	1 70.	6 6. 9 82.	9 7. 6 82.	0 4.1 2 43.	3 59.4	6 7.4 4 62.	6 64
29.	7 16. 4 15. 4 20. 5 34.	4 15. 7 23.	3	1		5 37.	5	15.		4 14. 0 35.	4	18. 15. 22. 38.	4 14. 0 20.	5 14. 0 19.	2	15. 15. 42. 43.	7 14. 2 42.	6 14 6 41

#### MONTHLY LABOR REVIEW

TABLE 5.-AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

CLE

Phi

Mar.

1913

Cts.
1 28.6
23. 5
21. 4
16. 5
11. 4
20. 3
23. 8
29. 7
18. 6
21. 8

8. 0 47. 5

25. 0 15. 0 25. 4 4. 8 3. 2 2. 8

9.8

4. 9 54. 0 25. 0

S StopeStwall :	er Orleans, La	No	rfolk,	Va.	(	maha	, Nebr	evil	Pe	eoria, I	11.
Article	Unit	Mar.	Feb.	Mar.	Mar.	15—	Feb.	Mar.	Mar.	Feb.	Mar
	I All TIE	15, 1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	15, 1924	15, 1925	15, 1925
Sirloin steak Round steak Rib roast Chuck roast	do do	34. 2 33. 5	Cts. 38. 0 32. 0 30. 1 20. 7 14. 3	Cts. 40. 1 33. 0 31. 2 21. 6 15. 3	Cts. 24. 5 20. 8 17. 9 15. 5 10. 3	Cts. 35. 6 31. 4 25. 5 20. 1 10. 5	Cts. 35. 3 31. 1 24. 3 19. 9 10. 9	Cts. 36. 3 32. 4 25. 2 20. 4 10. 9	Cts. 32, 1 29, 8 23, 1 19, 9 12, 8	Cts. 31. 6. 29. 1 23. 2 19. 6 12. 3	32.3 24.3 21.
Pork chopsBacon, slicedHam, slicedLamb, leg ofHens	do dodo	37. 0 39. 4	29. 1 36. 9 40. 2 38. 3 35. 8	33. 5 39. 9 41. 8 41. 8 38. 2	18, 2 27, 0 29, 0 18, 0 18, 5	25. 2 42. 2 45. 9 36. 7 31. 1	28. 0 43. 3 50. 5 39. 0 30. 9	37. 1 47. 7 53. 3 39. 2 31. 3	25. 1 39. 0 44. 3 34. 6 31. 8	27. 1 43, 3 47. 7 38. 2 31. 5	51. 39.
Salmon, canned, red Milk, fresh Milk, evaporated Butter Oleomargarine	Quart 15–16 oz. can Pounddo	28. 7 17. 0 11. 6 61. 3 31. 7	30. 6 17. 0 10. 9 51. 8 31. 5	31. 2 17. 0 10. 7 54. 0 31. 5	8, 1 39, 6	32, 9 12, 2 12, 1 54, 0 29, 2	33. 3 11. 4 11. 4 46. 6 30. 6	33. 8 11. 6 11. 4 52. 5 31. 2	32, 1 12, 2 12, 0 53, 6 31, 1	32, 2 12, 0 11, 6 46, 5 31, 6	12, 11, 55,
Nut margarineCheeseLardVegetable lard substitute.Eggs, strictly fresh	do	15. 9	27. 7 33. 1 21. 8 22. 6 53. 9	27. 9 32. 9 22. 4 22. 0 36. 2	22. 9 17. 3	28. 6 35. 2 19. 2 26. 2 28. 3	29. 6 35. 9 24. 3 28. 2 41. 2	29. 4 36. 2 25. 0 28. 0 30. 8	29. 3 36. 7 18. 2 26. 3 29. 5	29. 7 35. 8 23. 3 27. 4 46. 8	23. 27.
Bread	do	4.4	9. 4 6. 5 4. 8 9. 0 10. 8	9. 4 6. 5 4. 8 9. 0 10. 8	5. 2 2. 9 2. 3	9. 6 3. 9 4. 0 10. 6 9. 7	9. 8 5. 8 5. 3 10. 8 11. 9	9, 8 5, 8 5, 2 10, 7 11, 9	8. 6 4. 6 4. 0 9. 0 9. 9	10. 0 6. 4 5. 1 9. 4 12. 0	5. 9.
Wheat cereal	Pounddododo	19. 6 10. 0 9. 5	24. 1 19. 3 11. 7 9. 9 2. 6	24. 3 19. 1 11. 8 9. 9 2. 5	8, 5	24. 4 20. 2 9. 3 10. 1 2. 5	24. 6 21. 2 10. 1 10. 3 2. 2	24, 6 21, 2 10, 2 10, 3 2, 2	25. 2 19. 2 9. 8 9. 1 2. 3	25, 5 21, 4 10, 7 10, 1 2, 1	26. 21. 11. 10. 2.
Onions Cabbage Beans, baked Corn, canned Peas, canned	No. 2 can	6. 4 6. 4 10. 1 16. 1 19. 0	6. 1 4. 5 10. 1 17. 3 22. 1	6. 0 5. 0 10. 1 17. 4 22. 1		6. 2 5. 9 14. 6 16. 6 16. 5	6. 8 4. 5 14. 7 16. 8 16. 6	7. 2 4. 7 14. 7 16. 4 16. 4	7. 0 6. 0 12. 9 13. 8 17. 6	7. 3 . 5. 5 12. 1 16. 3 19. 2	5. 12. 16.
Comatoes, canned	Pounddo	11. 3 9. 8 81. 5 37. 5	12. 1 7. 1 93. 3 52. 1	12. 3 .7. 0 93. 6 52. 2	5, 7 56, 0 30, 0	14. 1 10. 5 76. 9 44. 1	14. 8 8. 2 76. 8 57. 3	15. 1 8. 3 76. 5 57. 6		15. 6 8. 9 64. 1 51. 9	8. 65.
Prunes Raisins Bananas Oranges.	Dozen	16. 2 15. 5 36. 1 34. 5	16. 0 14. 2 33. 3 43. 3	15. 6 14. 2 34. 6 48. 1		18. 6 17. 6 13. 7 37. 6	16. 8 16. 6 4 13. 5 42. 8	17. 2 16. 6 13. 3 44. 7		20. 1 15. 1 4 12. 0 40. 0	

<sup>&</sup>lt;sup>1</sup> The steak for which prices are here quoted is called "sirloin" in this city, but in most of the other cities included in this report it would be known as "porterhouse" steak.

# CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

Ph	iladel	lphia,	Pa.	Pi	ttsbu	rgh, l	Pa.	Por	tland,	Me.	P	ortlar	id, Or	eg.	Pr	ovide	nce, R	. I.
Mar	. 15—	Feb.	Mar.	Mar	. 15—	Feb. 15,	Mar.	Mar.		Mar.	Mar	. 15—	Feb	Mar.	Mar	. 15—	Feb.	Mar
1913	1924	15, 1925	15, 1925	1913	1924	1925	15, 1925	15, 1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925	1913	1924	15, 1925	15, 1925
23. 5 21. 4 16. 5	38. 3 33. 2	20, 9	51.8	21. 8 16. 2	42. 6 35. 0 32. 3 22. 0	44. 4 36. 5 33. 2 22. 6	44. 5 36. 5 33. 2 23. 1	1 55.8 43. 8 29. 4 19. 6	1 59.2 44.4 28.4 19.5	1 60.5 45. 7 30.0	20, 0 18, 7	25. 7 24. 8	24. 8 23. 3	25. 4 23. 6 17. 1	24. 4	Cts. 1 69.1 47. 0 37. 0 27. 1 18. 2	Cts. 1 68, 8 46, 1 36, 8 27, 6 18, 2	46. 37. 27.
20. 3 23. 8 29. 7 18. 6 21. 8	34. 5 47. 3 38. 4	36. 9 53. 7	40. 1	28. 1 28. 8	39. 8 51. 4 39. 2	43. 3 54. 5 40. 6	46. 5 57. 5 40. 0	35. 8 45. 4 37. 3	40. 2 49. 8 39. 1	42.6 53.8 40.8	28, 1 29, 7	46. 2 34. 4	54. 3 48. 6 36. 8	51. 5	21. 8 28. 5 19. 3	34. 7 51. 6 41. 8	34. 9 39. 5 55. 2 41. 1 41. 0	57. 9 42. 8
8. 0 47. 5	12.1	12. 0 11. 5 54. 0	12. 0 11. 4 58. 8		11. 8 59. 5	14. 0 11. 0 51. 9	14.0	12.8 13.6 62.3	14. 0 12. 2 53. 5	29, 3 13, 0 12, 3 55, 5 32, 0	44. 5	11.8	10. 5 51. 3	11. 7 10. 3 53. 4	9. 0	12.4	30. 7 14. 8 11. 4 49. 6 31. 0	30. 3 13. 8 11. 6 51. 3 31. 6
25. 0 15. 0 25. 4	28. 3 38. 0 16. 0 24. 6 36. 6	37. 5 22. 0 25. 7	38. 8 22. 5 25. 5	24. 5 15. 1 25. 4	16. 7 24. 8	30. 0 39. 1 21. 7 26. 2 58. 6	38. 8 22. 5	38. 4 17. 5 23. 6	36. 8 22. 5 25. 5	36. 6 22. 9	17. 9	19. 3 27. 7	99 0	29. 7 38. 3 24. 3 29. 2 36. 6	15. 2		28. 7 34. 8 21. 9 27. 2 69. 6	28. 8 35. 1 22. 6 27. 1 50. 2
4. 8 3. 2 2. 8	8. 5 4. 6 4. 2 8. 2 8. 8	6. 4 5. 2 8. 7	9. 3 6. 3 5. 3 8. 8 10. 1	5. 4 3. 1 2. 7	8, 5 4, 4 4, 6 9, 0 9, 5	9. 1 6. 2 6. 2 9. 4 10. 4	9. 2 6. 5 6. 0 9. 4 10. 4	9. 3 4. 5 4. 7 6. 9 9. 7	10. 4 6. 4 5. 5 7. 7 11. 4		5. 6 2. 9 3. 4	9. 6 4. 0 4. 0 9. 3 11. 4	9. 6 5. 8 5. 8 10. 3 11. 4	9. 6 5. 9 5. 8 10. 3 11. 4	6. 0 3. 4 2. 9	8. 7 5. 0 4. 3 9. 3 9. 7	8. 8 7. 0 5. 3 9. 3 10. 8	8. 8 6. 9 5. 4 10. 9
9.8	23. 7 20. 5 10. 7 9. 9 3. 2	23. 6 21. 4 11. 5 10. 1 3. 0	21. 5 11. 8 10. 2	9. 2	24. 3 20. 8 10. 2 9. 4 2. 6	24. 7 23. 0 11. 4 9. 5 2. 3	25. 0 22. 9 11. 5 9. 8 2. 2	24. 6 23. 7 10. 6 10. 1 2. 7	25. 3 24. 4 11. 7 10. 8 2. 0	24. 6 11. 7 10. 7	8. 6	25. 9 17. 5 9. 8 9. 8 2. 2	26. 3 17. 9 10. 7 10. 5 2. 7	26. 3 18. 1 10. 7 10. 7 2. 7	9.3	24. 2 23. 4 9. 5 10. 2 2. 8	24. 6 23. 3 11. 0 10. 3 2. 2	24. 2 23. 7 11. 0 10. 3 1. 9
	15. 0	5. 2 4. 6 11. 2 15. 1 15. 2	4. 5 11. 0 16. 5		5. 9 7. 1 12. 5 15. 9 17. 6	6. 1 5. 2 12. 5 17. 7 17. 7	12.6 17.2		5. 6 3. 1 15. 4 17. 4 19. 7	3. 1 15. 8		3. 9 6. 4 14. 9 19. 0 18. 8	5. 9 6. 6 14. 9 20. 8 19. 4	6. 1 14. 9 20. 8		6. 0 7. 1 12. 1 17. 4 20. 0	5. 5 4. 9 12. 1 18. 1 19. 8	5. 4 5. 8 12. 1 18. 6 19. 9
1.9	34. 1	1,000	70. 1 46. 9	5. 6 58. 0 30. 0	10. 4	79 0	7.7	23.0 10.3 60.5 45.3	7. 6 63. 9	7.4	6. 3 55. 0	10. 5	77.8	8. 2 77. 9	48. 3	12. 5 10. 3 58. 8 46. 7	15. 1 7. 3 60. 6 55. 5	15. 3 7. 1 61. 6 55. 1
	15. 0 33. 7	15. 3 13. 6 33. 9 45. 1	15. 2 13. 7 33. 2 53. 5			14. 3 43. 9	14.3		13. 6	16. 3 13. 5 11.6 50. 9		16.4	12.8			18. 4 15. 1 34. 5 41. 2	17. 8 14. 5 32. 9 52. 1	17. 9 14. 5 35. 0 55. 2

<sup>1</sup> No. 2½ can.

4 Per pound

#### MONTHLY LABOR REVIEW

# TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTI

CLE

St. I

Mar. 15, 1924

Cts. 925. 8 25. 8 25. 8 30. 8 35. 6

<sup>2</sup>Per

J. J. aveldrorit	Fortland, 10	R	lehmo	ond, V	a.		N. Y.		St	. Lou	tis, M	To.
Article	Unit	Mar.	.15—				Feb.		Mar.	15-	Feb.	
Star 1981 Hott 2101 (1991 )	der kan spiri	1913	1924	15, 1925	15, 1925	15, 1924	15,	15, 1925	1913	1924	15, 1925	15
COLUMN CO		Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.		. 0
Sirloin steak	Pound	22. 2	38. 7	38. 8	38. 7	39. 2	38. 9	39, 7	22.8	35. 0		
Round steak	do	19.6	35. 1	33. 8	33. 5	32 9	31. 9	39. 7 33. 0	20. 2	32. 5	32. 6	6 3
Rib roast	do	18.9	30.3	30.3	30. 1	29. 0	20.9	30.3	18.4	28. 2	29.1	1 2
Chuck roast	do	15.3	21. 9	21. 5	22. 1	22.8	22. 6	23. 0	15. 4	19. 1	19.9	1 1/
Plate beef	do	11.4	15. 6	15.0	14. 9	12.1	12.4	12.8	10. 7	13. 1		2 1
	Heroto tro to real					122	000					1
Pork chops	do	19. 4	27. 3	29, 9	37. 9	28. 2	33. 1	39. 9	18.0	23, 5	26. 1	
bacon, sliced	do	23. 6	30. 5	35. 3	37. 6	32.8	37. 2	39. 8	23. 8	35. 3	40.0	0 4
Ham, sliced	do	24.0	37. 1	39. 1	40.8	43, 8	47. 3	50, 1	26.7	42 6	45, 9	9 4
Lamb, leg of	do	1 19, 3	43.6	44 2	44.9	H 36, 6	39.4	38, 91	17. 1	35. 4	38.8	8 3
Hens.	do	22.0	35. 8	35. 2	36. 5	39. 9	40. 6	41.0	18. 6	32. 5	33.6	3
						1000	1	1 1	90			.1
Salmon, canned, red	Ones	10	31. 6	14.8	14 8	28. 0	30.3	10. 4		32.4	32.9	- 0
Wills constant	- Quart	10.0	14.0	14. 0	14.0	12.5	13. 5	14.5	8.0	13. 0	13.0	
MIHK, evaporated	15-16 oz. can		13. 6	12.7	12.6	12.1	11.6	11. 7		11. 1	10. 1	
butter	Pound	44. 2	65. 9	55. 6	60. 4	55. 9	50. 1	54. 9	41. 2	59. 3	50.0	1 0
Oleomargarine	do		30. 6	32.2	32. 6	31. 2	33. 3	33. 6		27. 9	28, 5	
							.00	1	1	25. 2	1	8 2
Nut margarine	do	29 2	36 5	36 5	36 5	37 4	36.8	37, 3	20. 3	34. 0	35. 1	
Lard	do	15 0	17 1	22 2	22 5	17 9	22 2	23. 2	13 6	12 2	18. 0	
Vegetable land substitute	do	20.0	24 0	25 2	25 0	29 0	24 0	25. 3		24. 9		
Vegetable lard substitute Eggs, strictly fresh	Dozen	21. 8	32 9	50.8	33. 0	38.3	60. 7	38.8	22 0	30 2	26. 0 49. 1	
		4 0 3			18	1 4 1		1 1	1	100	1	1
Bread Flour Corn meal Flour	- Pound	5. 3	8.5		9.4				5. 5			
Flour	do	3.3	4. 5	6. 3	6.3	4.5	6.5	6.5	3. 0	4.2	6 2	2 (
Corn meal	do	2.0	4.5	5. 1	5. 0	5. 0	6.3	6 4	9 1	9 9	4.8	8
Rolled oats	do		9.1	9. 5	9. 5	8.4	9.6	9.2	1 212 1	8.4	8.9	
Rolled eats	- 8-oz. pkg		9. 6	11.1			10. 7	10.8		9. 0		-1
Approximate the first process	A 10 10 10 10 10	1	1 10 1	1. 20	70	1 000		1 1	0.00	0 200		
Wheat cereal Macaroni Rice	- 28-0z. pkg		25. 3	25. 6	25. 3	24. 0	24. 1	24. 1		23. 6	23.8	
wacaroni	- Pound		20. 4	20. 8	20. 8	18. 3	22 6	22. 6		20. 1.	21.6	6 2
K400	do	9. 8	11. 6.	12.4	12.6	10. 0.	11. 2	11. 2	8. 6	9. 2	10.4	4 10
Beans, navy	do		10. 8	11.4	11. 1	10.0	10.0	10. 2		8. 9	9.4	4 1
Beans, navy	do	1.7	3. 4	3. 1							2.6	
Onions	10 W. C	0.0		14	-	123						1
Tahhara			0.8	4.1	7.0	5.7	5.2	0.4		0. 5	6.0	0 .
CabbageBeans, baked	- do		4.5	0. 1	5. 0	0.8	2.4	3.7		4. 8	3. 8	1
Deans, Daked	- No. 2 can		11.6	10. 9	11.0	11. 2	11. 2	11.1		11.3	11. 2	4 1
orn, canned	do		14. 7	15. 8	15. 9,	16. 0	17. 6	17. 3		15. 4	16.8	1
	( to the last 10 miles		2.7	S (60. F)	12. 27.1	45010	0.0				1	7 -
Comatoes cannod	do	1219	11 0	19 7	19 0	13 4	15 4	15 0	221	19 0	12 4	1
Fematoes, canned Sugar, granulated Fea	Pound	E 1	10 4	7	7 2	0.0	7.0	7.0	5 1	10	7	1
Pea	do	50 0	91 0	00 3	90 0	62 6	67 0	69 7	58 0	70. 7	70 0	1 -
Pea Coffee	dodo	27. 4	39.5	50. 3	49.0	36.6	50.0	68. 7 50. 9	24 3	39 0	50 0	1 5
the boar least white b	ED 8.01	0.75	North Co.	1.33	1.00	0.810	0.80		15.2	E 101	1	1
Prunes	do		19. 6	19. 4	19. 5	19. 0	18. 7	19. 7		20. 9	20. 3	2
Kalsins	do		15, 0,	14.3	13, 9	14.3	14. 2	14.1	5.00.	15. 6	14.9	9 1
Raisins	Dozen	0.00	40.0	38. 6	38.8	44.0	43. 3	42.7		34. 4	34. 2	2 3
Oranges	do		35. 4	38. 6	43. 5	39. 3	49.4	50. 7	-	40.8	43 1	1 4
		ALC: UNKNOWN			THE REAL PROPERTY.	and the	and the		Acres and the last of the last	and the same	a more in	A

<sup>1</sup> No. 21/2 can.

CLES OF FOOD IN 51 CITIES ON SPECIFIED DATES-Continued

St.	Paul, M	Minn.	Sal	t Lake	City,	Utah	San	Franc	isco, (	Calif.	Sava	nnah	, Ga.	8	Scrant	on, P	a.
Mar.	Feb. 15,	Mar. 15,	Mar	. 15—	Feb. 15,	Mar.	Mar	. 15—	Feb.	Mar.		Feb.		Mar	. 15—	Feb.	Mar
15, 1924	1925	1925	1913	1924	1925	15, 1925	1913	1924	15, 1925	15, 1925	15, 1924	15, 1925	15, 1925	1913	1924	15, 1925	15.
Cts. 32 26. 125. 19. 11.	27. 8 27. 0 21. 3	28.2 27.8 21.8	19.3	Cts. 28.0 24.2 21.0 17.3 12.1	Cts. 27.6 24.3 20.8 16.5 11.4	25. 2 21. 4 16. 7		28. 9 30. 2 19. 7	30.7 27.8 29.7 19.4	Cts. 31. 4 28. 3 30. 1 19. 4 15. 3	30. 0 25. 5 25. 0	30. 7 24. 7 25. 4	26. 1 26. 1 16. 1	22. 3 18. 5 18. 8	49. 0 39. 6 35. 9 26. 0	40. 2 35. 4 26. 3	49. 40. 35.
24. 4 35. 5 39. 9 33. 2 30. 5	40. 1 44. 4 34. 3	45.3 49.5 34.4	21.7 31.7 29.3 18.2 24.7	25.6 33.9 40.8 33.1 31.5	30. 1 39. 9 45. 3 33. 4 29. 1	50. 6 35. 3	24. 0 32. 8 30. 0 17. 3 23. 8	33.7 48.3 51.1	38. 5 53. 3 55. 5 38. 9	43. 0 55. 4 57. 7 38. 8	25. 9 30. 2 33. 5	27. 7 35. 1 38. 0 40. 0	29. 7 37. 9 40. 0 42. 0	19. 5 24. 2 27. 0 20. 7 22. 5	29. 4 40. 2 52. 8 44. 2	34. 9 43. 4 55. 0 45. 9	40.8 45.1 57.1 45.8
35. 8 11. 0 12. 4 52. 7 30. 2	11. 0 11. 7 43. 9	11. 0 11. 7 50. 8	8. 7 40. 6	35. 6 10. 0 11. 3 52. 0	36. 1 11. 5 9. 9 48. 4	9. 9	10. 0 42. 9	58. 1	W- 674	55. 2	60. 5	AX. U	58. 2	40.6	12. 9	31. 8 12. 0 11. 6 49. 3	31. 5 12. 0 11. 6
26. 4 35. 0 17. 6 23. 7 26. 9	22.3	28. 0 34. 0 23. 1 27. 5 35. 1		29. 7 30. 7 18. 5 29. 0 24. 6	30. 0 30. 5 24. 6 29. 7 58. 1	30. 3 29. 8 25. 3 29. 6 31. 8	20. 0 16. 9 23. 5	29. 0 38. 2 20. 4 26. 4 29. 6	29. 3 36. 3 24. 7 28. 2 36. 2	36. 3 25. 0	35. 2 17. 6 19. 1	32. 3 35. 1 22. 0 19. 4 47. 3	20.0		25. 0	34. 9	23.3 26.7
9.3 4.2 3.9 9.7 10.0	10.3 5.9 5.6 9.4 12.0	10. 3 5. 9 5. 6 9. 6 12. 3	5. 9 2. 5 3. 4	9.8 3.2 3.9 9.1 11.2	10.8 5.9 5.6 9.0 12.2	10. 8 5. 9 5. 7 9. 0 12. 1	5. 7 3. 3 3. 4	9. 1 4. 8 4. 6 9. 7 10. 6	10. 1 6. 7 5. 9 9. 8 10. 7	9. 9 6. 7 5. 8 9. 6 10. 7	8. 6 5. 3 3. 3 8. 6 9. 0	10. 2 7. 1 4. 1 9. 1 10. 3	10. 2 7. 1 4. 1 9. 1	5. 6 3. 4	9. 0 5. 0 5. 6 9. 7 10. 0	10. 2 6. 6 7. 3 9. 8 10. 8	10. 2 6. 7 7. 3 9. 9 10. 8
25. 0 18. 7 10. 2 9. 7 1. 8	24. 8 18. 9 10. 4 9. 9 1. 4	25.0 19.3 10.9 9.8 1.4	8. 2	24. 9 19. 2 8. 9 10. 2 1. 8	24.9 19.0 10.7 11.1 2.2	24.9 19.3 11.0 11.1 2.2	8. 5	9.3	14. 3 10. 9	14. 3 10. 9	23. 7 17. 2 8. 6 10. 4 3. 1	18. 1	23.8 18.2 9.8 10.9 2.7	8. 5		25. 6 23. 5 10. 7 12. 4 2. 2	26.3 23.6 10.7 12.7 2.2
6. 5 5. 8 14. 4 15. 2 17. 4	5. 7 3. 4 13. 8 15. 8 16. 9	6. 1 3. 8 13. 9 16. 0 16. 9		4.6 4.7 15.2 14.6 15.4	6.3 5.4 14.7 16.7 16.6	5.8 14.7 16.7		3. 5 13. 5 17. 4 18. 3	18. 8	6. 3 14. 3 18. 8 19. 0	6. 7 6. 6 12. 4 14. 4 18. 5	19.6	7.3 4.7 12.4 19.6 18.1		17.3	6.0 4.6 11.9 17.6 18.5	5.9 6.2 12.0 17.8 19.1
14. 4 10. 8 57. 9 13. 6	14. 7 8. 3 74. 3 53. 5	54.4	6.3 65.7 35.8	13.5 11.0 82.6 48.0	15. 9 8. 3 84. 7 57. 6		5. 3 50. 0 32. 0	15, 11 10, 1 60, 4 41, 9	7. 8	7.7 68.0	66. 8	11. 9 7. 2 76. 1	11.9 7.4 77.0	6. 1 52. 5	13. 2 10. 2 61. 3	14. 0 7. 7 66. 3	BIU F
19. 9 17. 4 14. 4 52. 1	18. 4 15. 5 12. 4 51. 2	17.6 15.2 12.4 50.9		15.7 14.8 17.6 33.8	16. 2 13. 3 16. 8 40. 1	16. 7 13. 4 16. 7 42. 9		16. 2 13. 8 37. 5 37. 8	13. 3	13. 4 1 37. 2 1	15. 2	13.6	13. 7		16. 8 15. 1 34. 4	14. 6 35. 0	35. 3

Per pound.

Comparison of Retail Food Costs in 51 Cities ABLE 6 shows for 39 cities the percentage of increase or decreain the rotall cost of food in March, 1925, compared will the average cost in the year 1913, in March, 1924, and in February 1925. For 12 other cities comparisons are given for the one year and the one-month periods. These cities have been scheduled by the bureau at different dates since 1913. These perceptage change are based on actual retail prices secured each month from retail dealers and on the average family consumption of these articles in

For list of articles soo note 8, p. 40.

\*The consumption figures used from January, 1813, to Descinber, 1920, for each article in each visitive in the Mourairy Lance, Herrick for November, 1915, pp. 94 and 95. The consumption Lance which have been used for each month beginning with January, 1921, are given in the Mourairy Lance Exvisit for March, 1821, p. 26.

\*\*Revisit for March, 1821, p. 26.

\*\*REVISIT FOR MARCH 1821, p. 26.

TABLE 5.—AVERAGE RETAIL PRICES OF THE PRINCIPAL ARTICLES OF FOOD IN 51 CITIES ON SPECIFIED DATES—Continued •

firm lowing following foll

Perce Num

TABL CO AV

Atlan Balti Birm Bosto Bridg

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Dalla Denv Detre

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Men Milv

er monume	) SABCETEG		Seattle	, Wasl	1.	Spri	ngfield	, m.	Wa	shing	ton, I	), (
Article	Unit	Mar	. 15—	Feb.	Mar.	Mar.	Feb.	Mar.	Mar	. 15-	Feb.	
	a day since	1913	1924	1925	1925	1924	1925	1925	1913	1924	1925	13
Sirloin steak Round steak Rib roast Chuck roast Plate beef	do	15. 0 11. 2	Cts. 32. 4 27. 8 26. 2 18. 0 18. 9	Cts. 31. 7 26. 5 25. 8 17. 3 13. 9	Cts. 32. 3 27. 8 26. 9 17. 9 13. 9	Cts. 33. 7 32. 9 22. 5 19. 9 12. 7	Cts. 30. 5 30. 1 21. 7 19. 1 11. 8	Cts. 32. 7 32. 1 22. 3 19. 5 12. 5	Cts. 26. 4 23. 1 21. 0 16. 6 11. 7		Cts. 42. 8 36. 6 33. 1 22. 1 12. 5	C 43 31 31 22 11
Pork chops Bacon, sliced Ham, sliced Lamb, leg of	do	18. 2	30. 6 44. 8 48. 3 34. 6 33. 7	34. 6 49. 0 52. 5 36. 6 32. 3	40. 4 53. 0 57. 3 37. 3 32. 7	24. 1 37. 3 43. 0 40. 7 32. 3	26. 4 39. 6 47. 8 40. 7 33. 7	35. 3 41. 8 50. 0 40. 7 36. 3	21. 9 25. 4 28. 6 21. 4 22. 1	27. 9 31. 9 51. 8 40. 3 39. 2	32. 5 39. 1 54. 3 42. 0 39. 4	44 4 4
salmon, canned, red  Milk, fresh  Milk, evaporated  Butter  Dleomargarine	do Quart 15–16 oz. can Pounddo	8. 6 44. 0	30. 3 12. 0 10. 7 57. 0 30. 5	32. 2 12. 0 10. 3 52. 2	31. 8 12. 0 10. 4 53. 6	34. 6 12. 5 12. 9 58. 3 31. 6	33. 6 12. 5 11. 8 48. 3 32. 0	33. 6 12. 5 11. 8 57. 1 31. 3	9.0		28. 5 14. 0 11. 7 54. 1 30. 9	2 1 1 5 3
Nut margarine Cheese Lard Vegetable lard substitute Eggs, strictly fresh	Dozen	23. 5	29. 8 35. 5 18. 8 27. 8 30. 8	30. 2 34. 2 23. 9 28. 6 41. 3	30. 0 34. 4 24. 0 28. 7 38. 9	30. 0 38. 0 17. 6 27. 6 29. 7	31. 4 36. 8 22. 7 28. 6 48. 3	30. 8 37. 8 23. 0 29. 3 32. 0	23. 5 14. 6 22. 6	16. 7 24. 9	28. 8 40. 3 21. 8 24. 7 61. 4	04 00 04 04 00
Bread Flour Corn meal Rolled oats Corn flakes	do	3.0	9.8 4.2 4.2 8.7 11.7	10.3 6.3 5.8 9.1 12.1	10, 3 6, 1 5, 9 8, 8 12, 1	10. 2 4. 6 5. 0 10. 7 10. 5	10. 9 6. 8 5. 9 10. 3 11. 5	10. 5 6. 6 6. 0 10. 4 11. 8	5. 5 3. 6 2. 5		8.8 6.6 5.4 9.3 10.5	
Wheat cereal	do	0.9	10.4	26. 0 17. 8 12. 2 11. 1 3. 0	26. 2 17. 8 12. 3 11. 1 2. 8	25. 3 19. 8 10. 5 9. 3 2. 6	26. 5 21. 0 10. 9 9. 9 2. 4	26. 5 20. 9 10. 8 9. 9 2. 6		23. 8 21. 1 10. 2 9. 6 2. 8	23. 8 22. 1 11. 3 9. 8 2. 5	1
Onions. Cabbage Beans, baked Corn, canned Peas, canned	No. 2 can dododo		16. 2 17. 6	6. 8 7. 1 14. 5 19. 7 21. 4	7. 0 7. 3 14. 5 19. 6 21. 3	6. 7 6. 0 13. 2 14. 8 18. 1	7. 9 5. 0 11. 8 17. 5 18. 9	7. 8 4. 8 12. 0 17. 7 19. 1		7.8	6. 0 5. 9 11. 2 17. 4 16. 9	
Comatoes, canned	do	28. U	1 16.4 10.8 74.8 43.4	1 18.5 8.3 80.5 53.8	1 18. 5 8. 4 79. 6 51. 9	14. 6 11. 6 77. 5 38. 5	15. 6 8. 6 74. 5 54. 4	15. 6 8. 4 74. 5 55. 5	5. 0 57. 5 28. 8	10. 9 9. 8 76. 3 36. 9	12. 5 7. 3 82. 4 48. 7	1 8
Prunes Raisins Bananas Oranges	do		14. 3 15. 6 2 15. 7 40. 9	14.8 14.7 12.7 48.6	15. 2 14. 8 2 12.7 46. 5	18. 8 16. 5 12.7 35. 2	16. 0 15. 8 12.1 44. 3	16. 2 15. 4 12.2 52. 0		19. 2 15. 0 40. 0 37. 3	19. 1 13. 9 38. 6 44. 3	1 1 3 4

1 No. 21/2 can.

2 Per pound.

## Comparison of Retail Food Costs in 51 Cities

TABLE 6 shows for 39 cities the percentage of increase or decrease in the retail cost of food 5 in March, 1925, compared with the average cost in the year 1913, in March, 1924, and in February, 1925. For 12 other cities comparisons are given for the one-year and the one-month periods. These cities have been scheduled by the bureau at different dates since 1913. These percentage changes are based on actual retail prices secured each month from retail dealers and on the average family consumption of these articles in each city.

For list of articles see note 6, p. 40.
The consumption figures used from January, 1913, to December, 1920, for each article in each city is given in the Monthly Labor Review for November, 1918, pp. 94 and 95. The consumption figures which have been used for each month beginning with January, 1921, are given in the Monthly Labor Review for March, 1921, p. 26.

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Effort has been made by the bureau each month to have perfect reporting cities. For the month of March 99.6 per cent of all the firms reporting in the 51 cities sent in a report promptly. The following were perfect reporting cities—that is, every merchant in the following-named 45 cities who is cooperating with the bureau sent in his report in time for his prices to be included in the city averages: Atlanta, Baltimore, Boston, Bridgeport, Buffalo, Butte, Charleston, River, Houston, Indianapolis, Jacksonville, Kansas City, Little Rock, Manchester, Memphis, Milwaukee, Minneapolis, Mobile, Newark, New Haven, New Orleans, New York, Norfolk, Omaha, Peoria, Philadelphia, Pittsburgh, Portland, Me., Portland, Oreg., Providence, Richmond, Rochester, St. Louis, St. Paul, Savannah, Scranton, Seattle, Springfield, Ill., and Washington, D. C.

The following summary shows the promptness with which the

merchants responded in March, 1925.

RETAIL PRICE REPORTS RECEIVED DURING MARCH, 1925

Y SON POUNDS, NOR ISBNER		EW JAC	Geogr	aphical di	vision	O ASTO
Item	United States	North Atlantic	South Atlantic	North Central	South Central	Western
Percentage of reports received	99. 6	100	100	99.7	99	99
Number of cities in each section from which every report was received	45	14	8	13	6	4

TABLE 6.—PERCENTAGE CHANGE IN THE RETAIL COST OF FOOD IN MARCH, 1925, COMPARED WITH THE COST IN FEBRUARY, 1925, MARCH, 1924, AND WITH THE AVERAGE COST IN THE YEAR 1913, BY CITIES

16 A	Percentag March,1 pared wi	925, com-	Percentage decrease		Percentag March, i pared wi	925, com-	Percent- age de- crease March.
City	1913	March, 1924	1925, compared with February, 1925	City	1913	March, 1924	1925, com pared with February, 1925
Atlanta Baltimore Birmingham Boston Bridgeport	50. 1 57. 4 60. 4 49. 2	6. 8 5. 6 9. 4 2. 5 1. 6	0.3 0.3 0.3 2.2 2.1	Minneapolis Mobile Newark New Haven New Orleans	49. 6 44. 6 47. 3 52. 8	4.7 6.8 1.6 1.9 6.7	1 1. 4 0. 8 0. 9 2. 4 1 0. 2
Buffalo Butte Charleston, S. C Chicago Cincinnati	55. 5 54. 0 60. 5 50. 6	6. 0 6. 7 3. 4 5. 4 5. 2	1 0. 6 1 0. 8 0. 6 1 1. 0 1 1. 3	New York Norfolk Omaha Peoria Philadelphia	49. 3	4.8 6.5 4.8 9.1 4.6	0.4 0.9 11.7 12.3 1.2
Cleveland Columbus Dallas Denver Detroit	50, 7 53, 9 33, 1 58, 2	6. 5 3. 4 7. 2 1. 6 7. 1	11.9 0 10.8 1.8 11.9	Pittsburgh Portland, Me Portland, Oreg Providence Richmond	37. 6	4.6 2.9 5.4 0.7 4.5	0. 5 3. 1 1 1. 5 2. 9 1. 0
Fall River Houston Indianapolis Jacksonville Kansas City	43. 8 43. 5 44. 1 51. 4	2 0. 1 10. 0 3. 8 4. 1 8. 0	3.4 11.1 10.9 1.3 11.3	RochesterSt. LouisSt. PaulSait Lake CitySan Francisco	54. 9 35. 0	5. 3 7. 0 6. 8 10. 5 6. 2	1.4 11.3 11.9 2.3 10.9
Little Rock Los Angeles Louisville Manchester Memphis Milwaukee	45. 5 45. 5 48. 1 43. 9 47. 1 52, 6	8. 2 4. 3 9. 6 0. 2 7. 5 3. 4	1 1. 0 1 1. 3 1 0. 8 3. 9 1 1. 8 1 1. 2	Savannah Scranton Seattle Springfield, Ill Washington, D. C	54. 7 45. 9	7. 1 5. 3 5. 7 5. 6 5. 4	0.2 1.7 10.4 10.8 1.0

1 Increase. Hang to a selection of 2 Decrease.

of the Wolfrang Labour Havingw. Store June, 19

## Retail Prices of Coal in the United States"

THE following table shows the average retail prices of coal on January 15 and July 15, 1913, March 15, 1924, and February 15 and March 15, 1925, for the United States and for each of the cities from which prices have been obtained. Prices for coal are secured from the cities from which monthly retail prices of food are received.

In addition to the prices for Pennsylvania anthracite, prices are shown for Colorado, Arkansas, and New Mexico anthracite in those cities where these coals form any considerable portion of the sales for household use.

The prices shown for bituminous coal are averages of prices of the several kinds used. The coal dealers in each city are asked to quote prices on the kinds of bituminous coal usually sold for household use.

The prices quoted are for coal delivered to consumers but do not include charges for storing the coal in cellar or coal bin where an extra handling is necessary.

AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, MARCH 15, 1924, AND FEBRUARY 15 AND MARCH 15, 1925

City, and kind of coal	19	13	1924	19	25
City, and kind of coar	Jan. 15	July 15	Mar. 15	Feb. 15	Mar. 15
United States:	O.HATOL ES	T MI TAN	VIIO 201	TARDAS	
Pennsylvania anthracite-	ASTORY :	E THE SA	37 9110 1	T monday	
Stove	\$7. 99	\$7, 46	\$15, 72	\$15, 43	\$15.41
Chestnut	8.15	7, 68	15, 70	15, 34	15. 32
Bituminous	5. 48	5. 39	9, 58	9. 36	9. 16
Atlanta, Ga.:		in organization	- Cale Inc	271	
Bituminous	5.88	4.83	8, 13	7.35	7, 03
Baltimore, Md.:	with the West	NO. 2014 75			11.00
Pennsylvania anthracite—	N. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	become A. S.	0 101014	# II II	
Stove	17.70	17.24	1 16.75	1 16. 25	1 16, 25
Chestnut	17.93	17.49	1 16.50	1 15.76	1 15.75
Bituminous			7.70	7.50	7.55
Birmingham, Ala.: Bituminous					
Bituminous	4.22	4.01	8, 15	7.77	7.69
Boston, Mass.:	Charles No. 18		- no	170016	
Pennsylvania anthracite— Stove—	200		A 1 THE RESERVE	5 74-2-15-1	
Stove	8.25	7.50	15, 50	16.00	16.00
Chestnut.	8.25	7.75	15, 50	16,00	16,00
Bridgeport, Conn.: Pennsylvania anthracite— Stove	Will New Orleans	1 1 1 1 1 1 1 1	O PARTY	A Thursday	
Stove	200 2 19, 15, 100	118/51/19	40 70	47.00	4 8 6 8
		********	16.50	15.38	15, 25
Chestnut Buffalo, N. Y.:			16.50	15.38	15. 25
Buffalo, N. Y.: Pennsylvania anthracite— Store. Chestnut	munro a	1 -1 -1	0.14	71.25	
Store	6.75	6, 54	13, 63	13, 66	13.72
Chestnut	6.99	6, 80	13, 63	18. 51	13, 55
		0.00	10.00	15, 51	13, 55
Butte, Mont.; Bituminous	Media III	DEL CORRES	10.98	11.13	10,93
Charleston B C:	M. 1 MAN 10 2 1		10, 00	11, 10	AUL 86
Charleston, S. C.: Pennsylvania anthracite—	CI DON'THE DE	Mennie!	(s. viii. (viii), 859	Children Car.	
Stove	18.38	17.75	1 17, 00	1 17, 00	1 17,00
Chestnut	18.50	18.00	1 17, 10	1 17, 10	1 17, 10
Bituminous	16.75	1 6. 75	12.00	11,00	11.00
Chicago III a			1 200	11.00	22100
Pennsylvania anthracite—	00. 阿克拉拉斯	5517H LIGH	E ITTY SELL	UE LEGA	
Stove	8.00 1	7, 80	16, 75	16.74	16, 70
Chestmut	8.25	8,05	16, 75	16.74	16.70
Bituminous	4.97	4, 65	8, 56	8, 50	8.48
Cincinnett Ohio:		61 12			
- Bitumipous	3.50	3.38	7.72	7. 21	6, 62
Cleveland, Ohio:	Seat The Park Land	10 Car   Car	term Call	OF ACTION	
Pennsylvania ant hracite-	and an annual services	The state of the s	3-665	the state of	100
Stove	7.50	7. 25	15, 41	14. 94	14.94
Chestnut	7.75	7.50	15. 41	14. 94	14.94
Bituminous	4.14	4,14	8.42	8.38	8.41
1 Per ton of 2,240 pounds.					

<sup>6</sup> Prices of coal were formerly secured semiannually and published in the March and September issues of the Monthly Labor Review. Since June, 1920, these prices have been secured and published monthly.

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AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, MARCH 15, 1924, AND FEBRUARY 15 AND MARCH 15, 1925—Continued

City and kind of sant	19:	13	1924	19:	25
City, and kind of coal	Jan. 15	July 15	Mar. 15	Feb. 15	Mar. 15
Columbus, Ohio:	tate D	Her Ind	N OF LA	Bur Pu	chen i
Rituminous			\$7. 24	\$6.61	\$6.
Dallas, Tex.:	polisting 1	-		201-1-20-0-0-0	1111
Arkansas anthracite—	The state of		17 75	17 77	10
Bituminous.	\$8, 25	\$7, 21	17. 75 14. 68	17. 75 14. 22	18.
Denver, Colo.:	40, 20	41. 41	14.00	14. 22	14.
Colorado anthracite—	1 (0.2)			30.00	
Furnace, 1 and 2 mixed	8. 88	9.00	16. 75	16. 33	16.
Stove, 3 and 5 mixed	8. 50 5, 25	8, 50 4, 88	16. 75	16, 42	16.
Detroit, Mich.:	0, 20	4.00	8, 51	9. 46	9.
Pennsylvania anthracite—	1 1000	The same		in the Continues	
Stove	8.00	7.45	15, 88	15, 50	15.
Chestnut		7. 65	15. 88	15. 38	15.
Bituminous	5. 20	5. 20	9, 52	8. 96	8.
Pennsylvania anthracite—			BUILDING WALL	ACTURE DE LA COMPANION DE LA C	
Stove	8. 25	7. 43	16, 00	15, 83	15.
Chestnut	8. 25	7. 61	16.00	15. 83	15.
Houston, Tex.: Bituminous	71.1		40.49	vitro algun	Water St.
ndianapolis, Ind.:			13. 17	12. 63	12.
Pennsylvania anthracite—	175.84		diam'r.	CONTRACTOR OF THE PARTY OF THE	
Stove	8, 95	8.00	16, 75	16, 50	16.
Chestnut	9. 15	8. 25	16.75	16, 50	16.
Bituminous	3. 81	3.70	7. 12	7. 20	7.
acksonville, Fla.: Bituminous	7.50	7 00	. 10.00	10.00	Impulle.
Xansas City, Mo.:	7. 50	7.00	13, 00	12.00	12.
Arkansas anthracite—	20 TOSO	111 7 117 . 4	Diffication	Digital harry A	
Furnace			16, 14	15, 33	15.
Stove, No. 4			17. 25	16. 69	16.
Bituminous	4. 39	3. 94	8.46	8.18	. 8.
ittle Rock, Ark.: Arkansas anthracite—	AV OBS		- Commence		
Egg.	8,08	20000	15, 00	15.00	15.
Bituminous.	6, 00	5, 33	11, 33	11, 00	10.
os Angeles, Calif.:		0.00	24.00	no luca simon	Varena II
Bituminous	13, 52	12. 50	15. 50	16. 31	16.
ouisville, Ky.: Bituminous	4.00	4.00	b ma		off")
Manchester, N. H.:	4. 20	4. 00	8. 73	7. 38	7.
Pennsylvania anthracite—		1		SUE OF LA	
Stove	10, 00	8, 50	18,00	16, 25	17.
Chestnut	10.00	8. 50	17.00	15. 50	16.
Memphis, Tenn.: Bituminous	1 10.0				. Bitmmin
Bituminous Milwaukee, Wis.:	3 4. 34	2 4. 22	7. 93	8. 03	8,
Pennsylvania anthracite—			-9710	BILLIAN GOLD	New M
Stove	8,00	7. 85	16, 68	16.80	16,
Chestnut	8. 25	8. 10	16. 59	16, 65	16.
Bituminous	6. 25	5. 71	10.04	9.80	9.
finneapolis, Minn.: Pennsylvania anthracite—	1-1		10.71	100 100	, demand
Stove Stove	9. 25	9, 05	18. 12	18, 10	18.
Chestnut	9, 50	9, 30	18, 09	17, 95	17.
Bituminous\	5. 89	5. 79	11.04	10, 92	10.
Iobile, Ala.:					L-goldan
Bituminous			11.07	9.87	9.
Pennsylvania anthracite—	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	will state	market min	Construction of the last	
Stove	6, 50	6, 25	13. 45	13. 62	13.
Chestnut	6.75	6, 50	13, 45	13. 43	13.
ew Haven, Conn.:	35   ner	DOS II.	1 PHO - 1277	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DE WINGS FO
Pennsylvania anthracite—	-	177-170-07	40.00	P110	Louis 78
StoveChestnut	7. 50	6. 25	16.00	15, 20	15.
ew Orleans, La.:	7. 50	6. 25	16.00	15. 20	15.
Bituminous	2 6, 06	2 6. 06	11.14	11.19	10.
lew York, N. Y.:	when I all			3.5	langer a
Pennsylvania anthracite—	Strad Petri	1000	SECTION STATES		The state of the s
Stove	7. 07	6. 66	14. 33	14, 42	14.
Chestnut	7.14	6. 80	14. 33	14, 42	14.
Pennsylvania anthracite—	and the same of th	OTHER INSTRU	AND CARROLLINE	Salles of	BANTH CO
Stove	Life you Gallet	1.69 - 303.00	16,00	15. 50	15.
Chestnut		and the book	16.00	15. 50	15,
Bituminous	L. C. C. C.		9.00	9. 27	9.

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AVERAGE RETAIL PRICES OF COAL PER TON OF 2,000 POUNDS, FOR HOUSEHOLD USE, ON JANUARY 15 AND JULY 15, 1913, MARCH 15, 1924, AND FEBRUARY 15 AND MARCH 15, 1925—Continued

ma Bu wh Ma H fru 11/4 mo see prie fou and bui 11/2 ( for inst in ] in 1 mol IND

Farm Foods Cloth Fuel Metal Build Chem House Misce

C urec incr sho per high and othe

less app

City and hind of seel	19:	13	1924	19	25
City, and kind of coal	Jan. 15	July 15	Mar. 15	Feb. 15	Mar. 1
Omaha, Nebr.:	and will	the bear	Bly held	I promis	
Bituminous	\$6.63	\$613	\$10. 20	\$10.07	\$10
Peoria III :				and the same of the same	1.0
Bituminous			6.38	6. 64	6
Philadelphia, Pa.:	3 8 70 75		CONTRACTOR	715 19000 10	
Pennsylvania anthracite— Stove————————————————————————————————————	1 7, 16	1 6, 89	1 15, 57	1 15, 61	1 15
Chestnut	1 7. 38	1 7. 14	115. 57	1 15. 46	1 15
	1 100 2	- Secondary	Dec1/10	THAN TO SEE	10
Pennsylvania anthracite— Stove————————————————————————————————————				er capture and	
StoveChestnut	1 7. 94	1 7. 83	1 16.75 1 16.83	16. 25	16
Bituminous	3 3. 16	3 3. 18	7. 39	16, 25 6, 83	16
ortland, Me.:	3. 10	0. 10	1.00	0.00	
D	- 1 III. A	- 1979			
Stove			16. 56	16, 56	16
Chestnut			16. 56	16. 56	16
ortland, Oreg.: Bituminous	0.70	0.00	19 00	10.00	
rovidence, R. I.:	9. 79	9. 66	13. 89	13. 62	13
rovidence, R. I.: Pennsylvania anthracite— Stove	CVIRW	es Gir a re	POT LAND		
Stove	4 8, 25	47.50	4 16, 35	4 16, 00	4 16
Chestnut	4 8. 25	4 7. 75	4 16. 35	4 16, 00	4 10
ichmond, Va.:	1000	- 10167		wither was	
Pennsylvania anthracite—	1 26.31	1-1-1-1			
Stove	8. 00	7. 25	16. 50	15. 50	1.
Chestnut	8.00	7. 25 4. 94	16. 50	15. 50	1.
Bituminous	5. 50	4. 94	11. 36	8.75	
Pennsylvania anthracite-		1		2.11	
Stove			14. 10	14. 25	1-
Chestnut			14. 10	14. 15	1
t. Louis, Mo.:		K-14-		A 101 3	
Pennsylvania anthracite— Stove	1254	12 27			100
Chestnut.	8. 44 8. 68	7. 74	17. 13	16. 63	10
Bituminous	3. 36	3. 04	17. 38 7. 07	16. 88 6, 68	1
	0.00	0.01	1.01	0.00	1
				3.004.004	
Stove	9. 20	9. 05	18. 14	18. 10	18
Chestnut	9. 45	9. 30	18. 09	17. 95	1
Bituminous	6. 07	6.04	11.26	11.58	1
alt Lake City, Utah:	42,05.	47.0	3 I E . Sec. 2	-1124	
Colorado anthracite— Furnace, 1 and 2 mixed	11.00	11.50	17.50	18, 25	1
Stove, 3 and 5 mixed	11.00	11.50	17. 75	18, 25	
Bituminous	5. 64	5. 46	7.47	8, 36	
an Francisco, Calif.:	35.24	Taxoni di			
New Mexico anthracite—	14. 44	1- 1-			VIII.
Cerillos egg	17.00	17. 00	26. 50	26. 50	2
Colorado anthracite—	17 00	17 00	04 10	05.00	0
Egg Bituminous	17. 00 12. 00	17. 00 12. 00	24. 50 17. 33	25. 00 17. 33	2
avannah, Ga.:	12.00	12.00	11. 00	11.00	
Pennsylvania anthracite—		1-1-1-1		and me brees	
Stove			5 17. 05	\$ 17.00	- 5 1
Chestnut			8 17. 05	8 17. 00	5 1
Bituminous			5 12.02	8 11.50	5 1
eranton, Pa.:	1			400	
Pennsylvania anthracite—	4.08	4 21	10 50	10 70	1
StoveChestnut	4. 25 4. 50	4. 31 4. 56	10. 53 10. 53	10. 78 10. 62	1
eattle, Wash.:	4. 30	7. 00	. 10.00	A	1
Bituminous	6 7. 63	4 7. 70	6 10. 03	6 10. 15	6 16
pringfield, Ill.:	12.00	1	20.00	Edition)	
Bituminous			4. 50	4. 35	
ashington, D. C.:	10072	The same			
Pennsylvania anthracite—	100.00	15.00	170.71		00
Stove	1 7. 50	1 7. 38	1 16. 14	1 15.79	11.
Chopulaterere	1 7. 65	1 7. 53	1 16.06	1 15. 63	1
Bituminous			1 9. 00	1 8, 64	

<sup>&</sup>lt;sup>1</sup> Per ton of 2,240 pounds.

<sup>4</sup> Fifty cents per ton additional is charged for "binning." Most customers require binning or basketing the coal into the cellar.

<sup>5</sup> All coal sold in Savannah is weighed by the city. A charge of 10 cents per ton or half ton is made. This additional charge has been included in the above prices.

<sup>6</sup> Prices in Zone A. The cartage charges in Zone A were as follows: January and July, 1913, \$0.50; March, 1924, and February and March, 1925, \$1.25. These charges have been included in the price.

#### Index Numbers of Wholesale Prices in March, 1925

WHILE wholesale prices of many commodities averaged lower in March than in February, the general level was slightly higher, according to information gathered in representative markets by the United States Department of Labor through the Bureau of Labor Statistics. The bureau's weighted index number, which includes 404 commodities or price series, registered 161 for

March compared with 160.6 for the preceding month.

Among foods, advances in fresh and cured meats, lard, butter, and fruits offset declines in eggs and flour, resulting in a net increase of 1½ per cent for the group. In the group of miscellaneous commodities, also, there was a net increase, due to rising prices of cotton-seed meal, manila hemp, jute, rope, and rubber. In all other groups prices averaged lower than in February, ranging from less than one-fourth of 1 per cent in the case of farm products, clothing materials, and chemicals and drugs, to 1¾ per cent in the case of fuels and building materials. Metals and house-furnishing goods were about 1½ per cent cheaper than in February.

Of the 404 commodities or price series for which comparable data for February and March were collected, increases were shown in 98 instances and decreases in 156 instances. In 150 instances no change in price was reported. Among foods alone there were 44 increases in price, 38 decreases, and 26 cases of no change from the preceding

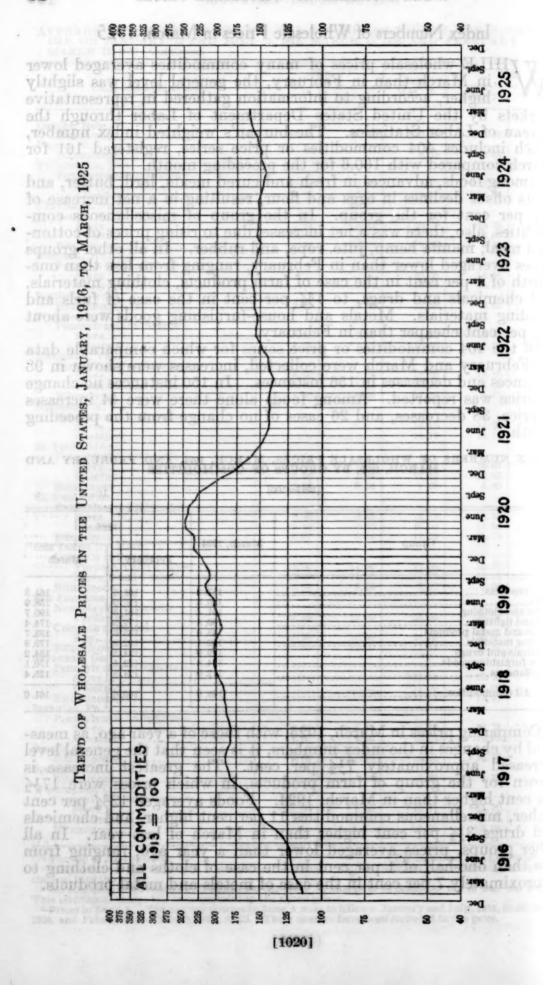
month.

INDEX NUMBERS OF WHOLESALE PRICES, MARCH, 1924, AND FEBRUARY AND MARCH, 1925, BY GROUPS OF COMMODITIES

T 4	91			4	-	
	34.1	-35	_	-	41	m

0 10		1925				
Group	March, 1924	February	March			
Farm products Foods Cloths and clothing Fuel and lighting Metals and metal products Building materials Chemicals and drugs House-furnishing goods Miscellaneous	137. 2 140. 8 191. 4 180. 8 143. 6 182. 1 129. 9 174. 8 112. 9	161. 5 156. 9 191. 0 177. 5 135. 6 182. 8 134. 5 172. 5	161. 158. 190. 174. 133. 179. 134. 170. 125.			
All commodities	149. 9	160. 6	161.			

Comparing prices in March, 1925, with those of a year ago, as measured by changes in the index numbers, it is seen that the general level increased approximately 7½ per cent. The greatest increase is shown for the group of farm products, in which prices were 17½ per cent higher than in March, 1924. Foods averaged 12¾ per cent higher, miscellaneous commodities 11 per cent higher, and chemicals and drugs 3⅓ per cent higher than in March of last year. In all other groups, prices averaged lower than a year ago, ranging from less than one-half of 1 per cent in the case of cloths and clothing to approximately 7 per cent in the case of metals and metal products.



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#### Agricultural and Nonagricultural Commodities

N THE August, 1924, number of the Monthly Labor Review (p. 77) there was presented an explanation of a new series of index numbers of wholesale prices constructed by the Bureau of Labor Statistics at the request of the United States Department of Agriculture. It was there explained that the new series was made by combining into two groups—agricultural and nonagricultural—the weighted prices of all commodities included in the bureau's regular series of index numbers. Roughly speaking, all articles originating on American farms were placed in the first group, while all remaining articles were placed in the second. The base was also shifted from the year 1913 to the five-year period 1910-1914. Index numbers for all years and months from 1910 to 1924, inclusive, were published in the Monthly Labor Review for February, 1925, page 54. Figures for the period January, 1923, to March, 1925, are given in the table which follows:

INDEX NUMBERS OF WHOLESALE PRICES OF AGRICULTURAL AND NONAGRICUL-TURAL COMMODITIES, BY MONTHS, JANUARY, 1923, TO MARCH, 1925

- 1	14	~	40	•	4	•		4		-	an'	١
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0.175 185.4 190.0 to	80 8 8	1923		19	024	1925		
Year and month	10 July 10	Agricul- tural	Nonagri- cultural	Agricul- tural	Nonagri- cultural	Agricul- tural	Nonagri- cultural	
Average for year		142.8	171.3	144. 2	161.6	1020120.01	10.224.00	
January		141.3	176 6	144.3	163. 7	160.8	164.	
February		141.9	177. 7	142.7	166. 3	159. 4	167.	
March		144.0	179. 4	139. 7	165.8	162. 0	165.	
April		143. 5	180. 4	138. 7	163. 7			
May		142. 4	176. 1	137.6	161.8			
June		140. 6	172.4	135. 2	159. 3			
July		138. 3	168.8	141.1	158. 4			
August		139. 3	166. 7	146.6	158. 9			
September	*******	146. 2	166.9	145. 3	158. 2			
October		146. 7	165.0	150.8	158. 1			
November		146. 4	163. 2	150. 5	160. 2			
December		145, 5	162.0	156, 4	162.8	10 6 WALE 3	Deriva.	

## Average Wholesale Prices of Commodities, January to March, 1925

IN CONTINUATION of the plan of publishing each quarter in the MONTHLY LABOR REVIEW a detailed statement of wholesale prices, there is presented herewith a list of the more important commodities included in the bureau's compilation of wholesale prices, together with the latest record of price changes available at the time of its preparation. For convenience of comparison with pre-war prices, index numbers based on average prices in the year 1913 as 100 are shown in addition to the absolute money price wherever such information can be supplied. Index numbers for the several groups and subgroups also are included in the table. To show more minutely the fluctuation in prices, all index numbers are here published to one decimal fraction. Figures are given for January, February, and March, 1925.

- No relations price; -

#### WHOLESALE PRICES OF COMMODITIES, JANUARY TO MARCH, 1925

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e of the Monrack Lance Kevics n explomation of a new series of index	A	verage pr	ices	Index numbers (1913=100)			
mgA. louineauxingad many beautiful	Jan., 1925	Feb., 1925	Mar.,	Jan., 1925	Feb.,	Mar. 1925	
d short and rained was and raft. I		ZA 6	90 E. P	(C) (C) (C)	ortini.	1340	
FARM PRODUCTS	EDWARD.		8 70	163. 4	161.5	161.	
Barley, malting, per bushel, Chicago	\$0,973	\$0. 996	\$0, 922	201. 7 155. 5	198. 7 159. 3	179,	
No. 3 mixed Oats, contract grades, per bushel, Chicago Rye, No. 2, per bushel, Chicago	1. 214	1. 242 1. 186 . 570 1. 579	1. 165 1. 121 . 492 1. 353	203. 3 197. 2 158. 5 249. 1	198. 7 192. 6 151. 7 248. 2	186. 182. 131. 212	
Wheat, per bushel— No. 1, northern spring, Chicago No. 2, red winter, Chicago No. 2, hard winter, Kansas City No. 1, northern spring, Minneapolis No. 1, hard white, Portland, Oreg	1, 909 2, 006 1, 866 1, 819	1. 841 1. 984 1. 848 1. 788 2. 048	1. 689 1. 767 1. 678 1. 626 1. 778	209. 0 203. 3 212. 9 208. 2 215. 6	201. 7 201. 1 210. 8 204. 7 220. 4	184 179 191 186 191	
Livestock and poultry				123. 2	126. 9	143	
Cattle, steers, per 100 pounds, Chicago— Choice to prime Good to choice Hogs, per 100 pounds, Chicago—	10. 594 9. 313	10. 688 9. 469	11. 110 10. 200	118. 7 109. 5	119.7 111.3	124 119	
Light	10. 800	11. 150 10. 950	13. 480 13. 430	129. 1 122. 8	133. 3 129. 5	161 158	
Sheep, per 100 pounds, Chicago— Ewes, native, all grades— Lambs, western, medium to good— Wethers, fed, good to choice— Poultry, live fowls, per pound—	10, 500	8. 438 17. 313 10. 250	9. 175 16. 050 10. 450	185. 4 226. 1 196. 4	180. 0 222. 1 191. 7	195 205 195	
Poultry, live fowls, per pound— Chicago New York	. 184	. 241	. 272	119. 7 200. 1	156. 6 182. 2	176 197	
Other farm products  Beans, medium, choice, per 100 pounds, New York  Clover seed, contract grades, per 100 pounds, Chicago.	6, 988 31, 692	7. 213 31. 909	6. 835 30. 000	182. 6 175. 1 191. 9	175. 7 180. 8 193. 2	167 171 181	
Cotton, middling, per pound— New Orleans New York Cottonseed, per ton, average price at gin	. 237 . 240 37. 500	. 247 . 247 37, 140	. 255 . 256 38. 210	186. 6 188. 0 172. 1	194. 6 193. 0 170. 4	200 200 175	
Eggs, fresh, per dozen— Firsts, western, Boston Firsts, Chicago Extra firsts, Cincinnati Candled, New Orleans Firsts, New York Extra firsts, western, Philadelphia Extra, pullets, San Francisco Flaxseed, No. 1, per bushel, Minneapolis	. 600 . 558 . 570 . 490 . 594 . 605 . 484 3. 138	.423 .393 .381 .411 .436 .416 .281 3.067	. 306 . 287 . 273 . 311 . 304 . 320 . 306 2. 917	238. 6 246. 9 254. 8 209. 1 238. 7 229. 5 180. 7 232. 6	168. 0 174. 2 170. 1 175. 5 175. 2 157. 9 105. 0 227. 3	121 127 122 132 122 121 114 216	
Alfalfa, No. 1, Kansas City  Clover, mixed, No. 1, Cincinnati  Timothy, No. 1, Chicago	22, 700 16, 750 22, 250	19. 750 15. 625 20. 875	20, 063 15, 563 20, 800	160, 0 107, 5 138, 8	139. 2 100. 3 130. 2	141 99 129	
Hides and skins, per pound— Calfskins, No. 1, country, Chicago Goatskins, Brazilian, New York Hides, heavy, country cows, No. 1, Chicago Hides, packers', heavy, native steers, Chicago Hides, packers', heavy, Texas steers, Chicago Hops, prime to choice, per pound—	. 825 . 127 . 169 . 161	. 215 . 894 . 122 . 163 . 158	. 204 . 860 . 112 . 148 . 144	114. 0 116. 1 84. 1 92. 1 88. 9	114. 0 125. 7 81. 0 88. 7 87. 4	108 120 74 80 79	
New York State, New York Pacifies, Portland, Oreg.	. 323	. 330	.316	121. 1 86. 9	123. 9 97. 1	118 91	
Milk, fluid, per quart— Chicago. New York San Francisco. Onions, fresh, yellow, per 100 pounds, Chicago. Peanuts, No. 1, per pound, Norfolk, Va	. 062 . 083 . 068 2. 875 . 063	. 062 . 083 . 068 3, 344 . 070	. 062 . 080 . 068 3. 150 . 070	144. 6 186. 5 158. 1 182. 9 176. 6	144, 6 186, 5 158, 1 212, 6 198, 0	144 179 158 200 198	
Potatoes— White, good to choice, per 100 pounds, Chicago Sweet, No. 1, per five-eighths bushel, Philadelphia. Rice, per pound, New Orleans—	1, 231 1, 830	1, 206 1, 650	1. 190 1. 581	120. 3 379. 2	117. 8 341. 9	116 327	
Blue Rose, head, clean		. 063	.064	(1) 130. 8	(1) 132, 0	(1) 133	
Burley, good leaf, dark red, Louisville, Ky.  Average warehouse sales, Kentucky	24. 500 18. 723	24. 500 16. 363	24. 500 12. 247	185. 6 210. 1	185. 6 183. 7	183	

1 No 1913 base price.

3 Not included in weighted index.

m = 100) soon equips A	Av	erage pri	ices		ex numb 913=100	
Commodity	-	1		_		
THE REST COST   1992   1991	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar., 1925
FARM PRODUCTS—Continued		2 octua [8	10 U-+8/I	0.01		
other farm products-Continued.	- 270		lett let be rel	dione in	-sharit	100
Wool: Ohio, grease basis, per pound, Boston—	11 11 12 12		100	but to a	post of a	and a
Fine delaine	\$0.600 .720	\$0. 580 . 680	\$0, 530 . 630	262. 7 312. 0	253. 9 294. 7	232. 0 273. 0
Half blood	700	. 680	. 630	306. 0	297. 2	275. 3
One-fourth and three-eighths grades South American, grease basis, per pound, Boston—	. 700	. 700	. 650	266. 0	266. 0	247. (
Argentine crossbreds, straight quarter-blood	. 507	. 515	.479	149. 1	151. 5	140.
Montevideo, 50s  Territory, scoured, per pound, Boston—	. 613	. 613	. 548	173. 1	173. 0	154.
Fine and fine medium, staple	1. 656	1. 644	1. 565	294. 9	292.6	278.
Half blood	1.475	1. 444	1. 440	286. 9	280. 9	280. 1
Territory, scoured, per pound, Boston— Fine and fine medium, staple Half blood  FOODS				159.8	156.9	158.9
feats .			D81846	140.5	141.6	156.8
Beef, fresh, per pound— Carcass, good, native steers, Chicago.	the second side		- 10/1-20/1	140. 9	140. 9	140.5
Sides, native, New York Beef, salt, extra mess, per barrel (200 pounds), New	. 150	. 141	.154	119.8	112. 9	122, 6
Beef, salt, extra mess, per barrel (200 pounds), New York	17. 500	17, 500	18, 500	92. 5	92. 5	97. 8
Home smoked per pound Chicago	210	231	260	132.0	139. 2	161. 9
Mutton dressed per pound, Unicago	150	. 265	. 265	184. 3 146. 3	178. 2 136. 6	178. 2 156. 6
Pork, fresh, per pound— Loins, Chicago	. 100	001440	The same of the sa	(3200 -5)	A STATE OF THE PARTY.	STREET, T
Loins, Western, New York	. 174	. 180	. 275 . 268	117. 1 125. 4	121, 1 118, 2	185. 175.
Pork, cured—	V 505 J	10.23	1.30424708	Date AC	(173175 G)	Total Control
Mess, salt, per barrel (200 pounds), New York Sides, rough, per pound, Chicago	201	. 196	40.600	156. 7 162. 9	164. 0 158. 8	180.
Sides short alsor nor nound Phicago	2004	. 206	. 242	160. 0	161. 9	189. 8
Foultry, dressed, per pound— Hens, heavy, Chicago. Fowls, 48-54 pounds to dozen, New York Veal, dressed, good, per pound, Chicago	. 238	. 256	(3)	164. 2	177. 2	37.
Fowls, 48-54 pounds to dozen, New York	. 291	. 315	. 285	159. 5	177. 2 172. 7	156.
		. 175	. 163	171.0	188, 3	174.1
Butter, cheese, and milk				147.0	147.7	152.
Boston.	. 396	. 408	. 470	124. 9	128. 5	148.
Chicago Cincirnati	. 390	. 395	. 472 . 427	125. 6 (1)	127. 3	152.
New Orleans	453	445	. 506	134. 6	132. 4	150.
New Orleans New York Philadelphia St. Louis	. 394	404	. 476	122.3	125. 2	147.
Philadelphia	.418	419	. 483	128. 3	128. 7	148.
St. Louis San Francisco	. 401	.414	. 483	129. 8 148. 5	134. 0 143. 1	156. 146.
Cheese, whole milk, per pound—	. 411			140, 0	140. 1	140.
American, twins, Chicago	. 233	. 229	. 231	164. 0	161.8	162.
State, fresh flats, colored, average, New York California, flats, fancy, San Francisco	. 232	. 231	. 235	150. 5 131. 1	150. 1 145. 1	152.
Milk, fluid. (See Farm products.)	N. COST.	. 201		101, 1	140. 1	101.
Milk, condensed, per case of 48 14-ounce tins, New York			E CHE	105.0	105 0	100
Milk, evaporated, per case of 48 16-ounce tins, New	5. 875	5. 875	5. 875	125. 0	125. 0	125.
York	4. 163	4. 175	4. 155	117.8	118. 1	117.
Other foods		111 100	Menny	174.0	168. 1	162.
Beans, medium, choice. (See Farm products.)	1.12.	(2) (2) (2)	of the last	CONTRACTOR	o Islanda	11177
Bread, per pound before baking— Chicago			. 075	174. 5	174. 5	174.
Cincinnati		. 071	. 071	174. 7	199. 7	199.
New York	.075	. 075	.075	244. 9 165. 1	244. 9 165. 1	244. 165.
San Francisco	.078	.078	. 078	194. 5	194. 5	194.
Cocoa heans Arriba per pound New York	191	. 188	. 185	118. 4	122. 9	120.
Collee, Rio, No. 7, per pound, New York	. 234	. 224	. 212	210.6	201. 3	190.
Coffee, Rio, No. 7, per pound, New York. Copra, South Sea, sun dried, per pound, New York. Eggs, fresh, per dozen. (See Farm products.)	.061	. 059	. 059	58. 8	57. 0	56.
Fish—Cod, large, shore, pickled, cured, per 100 pounds,		1 842 C	TO COLUMN	napari city	4-97	SALE.
Gloucester, Mass	8, 500	8. 500		126.7	126.7	126.
Mackerel, salt, large, 3s, per barrel, Boston	14. 850	15. 840	15. 840	133. 8 184. 9	142.8	142

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Average prices (1915—100)	Av	erage pr	Index numbers (1913=100)			
Commodity		77.3	Dommo'			
Jan Pub. Miss. Jan. Poh. Mar. 1905 1905 1906 1905 1925 1925	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar. 1925
FOODS—Continued	tied	line5-	stotes	ar un	141	
Other foods—Continued Flour, rye, white, per barrel, Minneapolis Flour, wheat, per barrel—	\$7.988	\$8. 256	\$7.110	255. 8	264. 4	227
Winter patents, Kansas City Winter straights, Kansas City	8, 805	9. 519 8. 669	8, 850 7, 969	238. 6 228. 9	237. 3 225. 3	220 207
Standard patents, Minneapolis	9. 413	9. 850 9. 600	9. 035 8. 740	211. 5	214. 9 217. 1	197
Patents, Portland, Oreg	0 420	11. 213 9. 595	10. 907 8. 675	237. 0 206. 3	249. 4	245
Patents, soft, winter, St. Louis Straights, soft, winter, St. Louis	8. 915	8, 906	8. 194	209. 6	210, 1 209, 4	190
Fruit, canned, per case, New York—	9. 415	9. 150	8. 375	199. 2	<b>193.</b> 6	17
Peaches, California, standard 2½s.  Pineapples, Hawaiian, sliced, standard 2½s.  Fruit, dried, per pound, New York—	1. 800 2. 750	1. 800 2. 750	1. 800 2. 750	118. 6 133. 9	118. 6 133. 9	113
Apples, evaporated, State, choice	. 136	. 138	. 129	189.8	191. 5	179
Currants, Patras, cleaned	. 108	.115	.110	140. 3 117. 2	150. 1	14
Prunes, California, 60-70s	. 078	.078	.078	106.8	124. 8 106. 8	10
Apples, Baldwin, per barrel, Chicago		6. 563	7. 125	196. 9	206.8	22
Bananas, Jamaica, 9s, per bunch, New York Lemons, California, choice, per box, Chicago	2. 500 6. 875	2. 656 6. 375	3. 125 5. 900	162. 5 119. 1	172. 5	200
Oranges, California, choice, per box, Chicago	6, 156	5. 781	6. 235	139. 3	110. 4 130. 8	10:
Glucose, 42° mixing, per 100 pounds, New York	4. 260	4. 260	4. 260	199. 3	199. 3	19
Hominy grits, bulk, car lots, per 100 pounds, f. o. b.	2, 555	(8)	(8)	154.8		
Lard, prime, contract, per pound, New York Meal, corn, per 100 pounds—	. 166	. 161	. 171	151.0	145. 9	15
White, f. o. b. mill	2. 505	(6)	(8)	156. 5		
Yellow, Philadelphia	3. 450	3, 438	3. 431 . 525	240. 6	239.8	23
Molasses, New Orleans, fancy, per gallon, New York. Oatmeal, car lots, in sacks (90 pounds), per 100 pounds, New York.	3, 889	3. 799	3, 544	174. 6	168. 7 153. 5	13
pounds, New York	10.0	- 15 m	200 4324	100000		
Chicago	. 245	. 245	. 245	150. 8 130. 7	150. 8	150
Oleo oil, extra, per pound, Chicago	. 133	. 131	, 124	122.9	105. 6 121. 0	10
Salt, American, medium, per barrel (280 pounds), Chicago	2. 490	2. 490	2, 490	244. 1	244.1	24
Sugar, per pound, New York— Granulated, in barrels.	. 061	. 058	. 059	141.7	136. 5	13
Raw, 96° centrifugal	.046	. 046	.047	131. 1	132. 0	13
Tallow, edible, per pound, Chicago	. 108	. 095	. 103	135. 4	119.3	12
Tea, Formosa, fine, per pound, New York— Vegetables, canned, per dozen, New York— Corn Maryland standard	1. 475	1. 475	1. 475	141. 0 232. 5	141. 0 232. 5	23
Corn, Maryland, standard	1. 300	1. 300	1. 300	150.0	150. 0	150
Tomatoes, New Jersey, standard, No. 3 Vegetables, fresh. (See Farm products.)	1, 550	1. 600	1, 600	119. 2	123. 1	12
Vegetable oil— Coconut, crude, per pound, New York— Corn, crude, in barrels, per pound, New York— Cottonseed, prime, summer, yellow, per pound,	.120 .128	.119	.115	89, 2 210, 9	88. 2 189. 7	8 19
New York	. 112	. 107	. 111	154. 2	147.7	15
Onve on, surole, in Darreis, per ganon, New 10th	2. 150	2. 038	2.000	127. 4	120. 7	(1)
Peanut crude, per pound, f. o. b. mill———————————————————————————————————	. 116	.115	.115	223. 7	224. 7	218
Vinegar, cider, 40-grain, in barrels, per gallon, New York	. 200	. 200	. 200	179. 1	179. 1	179
CLOTHS AND CLOTHING				191.1	191. 0	196
loots and shoes, per pair, factory				185, 4	185. 9	186
Children's-	200	MAL NEW	must such	Million .		10
Child's, gun metal, polish, high cut, rubber heel Misses', black, vici, polish, high cut, rubber heel Youths', gun metal, blucher	1. 948 1. 473	1. 615 1. 663 1. 948 1. 473	1. 615 1. 663 1. 948 1. 473	166. 5 181. 7 173. 2 143. 4	166. 5 181. 7 173. 2 143. 4	16 18 17 14
Men's— Rlack calf blueber	6 250	6 200	6 400	204.0	204.0	200
Men's— Black, calf, blucher— Black, calf, Goodyear welt, bal— Black, dress, Goodyear welt, side leather—	6. 350 5. 000 3. 150	6. 350 5. 072 3. 198	6. 400 5. 150 3. 250	204. 0 157. 9 140. 8	204. 0 160. 2 142. 9	16 14

1 No 1913 base price.

<sup>8</sup> Quotation not received.

n prices Index numbers (Ab)2 = 100	Commodity					ex numb 1913=100	
			1				
Mar. Jun. Feb. Sep.		Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar., 1925
CLOTHS AND CLOTHING-	-Continued	list(n) L	0-02	STOLD	E E A K	STG-F3.	
Boots and shoes, per pair, factory	-Continued				desgni n	12mat	SALIB
Men's—Continued Gun metal, Goodyear welt, blue	her	\$4.500	\$4. 500	\$4. 500	230. 2	230. 2	230.
Mahogany, chrome, side, Goody Tan, dress, Goodyear, welt, calf.	ear welt, bal	3. 600 5. 000	3. 600 5. 072	3. 600 5. 150	223. 3 157. 9	223. 3 160. 2	223. 162.
Tan, dress, Goodyear welt, side l	eather	3. 350	3. 374	3. 400	149. 7	150. 8	152.
Chocolate elk, blucher Vici kid, black, Goodyear welt		1. 739	1. 739	1. 739	122.1	122.1	122.
Women's—	***************************************	6. 000	6, 000	6.000	209. 3	209. 3	209.
Black, kid, Goodyear welt, 81/2	inch lace	4. 000	4. 000	4.000	147. 2	147. 2	147.
Colored, calf, Goodyear welt, lace Kid, black, McKay sewed, lace	e oxford	4. 150	4. 150 3. 600	4. 150 3. 600	190. 9 241. 2	190, 9 241, 7	190. 241.
Patent leather pump, McKay se	wed	3. 600	3. 600	3. 600	261. 8	261.8	261.
Cotton goods, factory		******			185. 7	184. 3	185.
Denims, Massachusetts, 2.20 yards	to the pound, per			. 219	164. 5	165. 9	170.
Drillings, brown, per yard—						Line	201
Massachusetts, D standard, 30-in Pepperell, 29-inch, 2.85 yards to	the nound	. 161	. 159	. 159	194.8	192. 6 200. 5	192.
Flannels, per vard—	AL PART III		. 100	. 100	200. 5	200. 5	200.
Colored, 4.20 yards to the pound		. 146	. 140	. 140	200. 3	191.8	191.
Unbleached, 3.20 yards to the po	and	. 196	. 190	. 190	219.0	212.6	212.
Amoskeag, 27-inch, 6.37 vards to	the pound	. 105	. 105	. 115	161. 5	161.5	176.
Lancaster, 26½-inch, 650 yards to Hosiery, per dozen pairs—	Mary Cold Programmer		. 131	. 131	211. 2	211. 2	211.
Men's half hose, combed yarn		1.750	1.750	1. 750	217. 5	217. 5	217.
Women's, cotton, silk mercerized Women's, combed yarn, 16-ounce	, mock seam	2. 275 1. 715	2. 319 1. 715	2. 325 1. 715	128. 4 171. 4	130. 8 171. 4	131.
Muslin, bleached, 4/4, per yard—	With the State of		1. 713	1. 110	1005 100	S DATE	112.
Fruit of the Loom		. 181	. 181	(3)	211.6	211.6	
Lonsdale		. 167	. 167	. 168	206. 2 188. 2	206. 2 190. 5	208.
Wamsutta nainsook		. 235	230	. 229	255. 3	250. 2	248.
Print cloth, 27-inch, 7.60 yards to the Sheeting, brown, 4/4, per yard—	e pound, per yard.	. 069	. 068	. 009	198. 6	197.4	201.
Indian Head, 2.85 yards to the p	ound	. 157	. 157	. 157	186. 2	186. 2	186.
Pepperell, 37.5 yards to the pour	d	. 148	. 148	. 148	201. 2	201. 2	201.
Ware shoals, 4 yards to the poun Thread, 6-cord, J. & P. Coats, per	spool	. 108	. 107	. 110	175. 6 186. 0	174. 4 186. 0	178. 186.
Underwear—	Sec. (37) A. Janes	10000	- 1013	11 30 1.42	FE GOOD IS	77/102	TO SE
Men's shirts and drawers, per de Women's union suits, combed y			7. 425	7. 425	207. 6	207. 6	207.
Yarn, per pound—	E 1000 N	-	900	DIE WEEK			
Carded, white, mulespun, north	ern, 10/1, cones	. 406	.399	. 393	183. 6	180. 5	
Carded, white, mulespun, norther Twisted, ordinary weaving, 20/			. 430	. 430	176. 7 187. 3	173. 8 181. 0	173. 185.
Twisted, ordinary weaving, 40/2	13.0	548	. 541	. 558	143. 1	141. 2	145.
Woolen and worsted goods, factory Flannel, white, 4/4, Ballard Vale, M	Jo 2 par word	1 000	1.000	1, 040	219. 2	218. 2 215. 8	220. 224.
Overcoating, 30 to 31 ounces, per ye	ard	3, 000	3. 130	3, 250	173. 0	180. 6	187.
Suiting, per yard— Clay worsted, diagonal, 16-ounce	1 1-156 1 1-1-1		0 100	9 100	000 0	000 0	10
Middlesex, wool-dyed, blue, 16-on	ince	3. 128 3. 780	3. 128 3. 780	3. 128 3. 780	226. 3 244. 7	226. 3 244. 7	226. 244.
Serge, 91/2-ounce		1, 530	1. 530	1. 530	240. 2	240. 2	240.
Serge, 11-ounce		2, 520	2. 479	2.475	222.9	219. 3	218.
Trousering, cotton warp, 11/111/2-ou	nce, per yard	1.700	1. 739	1.800	150. 2	153. 7	159.
Merino shirts and drawers, per d	ozen garments	33. 000	33. 000	33. 000	168. 5	168. 5	168.
Men's union suits, 33 per cent wo Women's dress goods, per yard—	rsted, per dozen	30. 380	30. 380	30. 380	309. 6	309. 6	309.
Broadcloth, 916-ounce, 54-36-inch	1 1010-1-1	2.651	2.651	2. 674	201, 5	201. 5	203.
French serge, 35-inch		. 784	.800	. 800	237.5	242. 4	242.
Poplar cloth, cotton warp. Sicilian cloth, cotton warp, 50-inc	h	. 375	. 375	. 375	197. 4 201. 7	197. 4 211. 8	197. 211.
Storm serge, double warp, 50-incl	1	1. 035	1. 035	1. 035	184. 0	184. 0	184.
Yarn, per pound— Crossbred stock, 2/32s	A STATE OF THE PARTY OF THE PAR		1 000	1 900	244. 6	244, 6	231.
Half blood, 2/40s		1. 900 2. 400	1. 900 2. 375	1. 800 2. 294	215. 0	212. 7	205.
Fine, domestic, 2/50s		2. 650	2. 600	2. 638	251. 4	246. 6	250.
Silk, ete	a, marry	- 5 50	5.00	1 7 7	166. 4	168. 5	159.
Linen shoe thread, 10s, Barbour,	per pound. New					*	
York.		1.816	1.946	1.946	203. 3	217. 9	217.

And will being the and the second	A	verage pr	ices	Index numbers (1913=100)			
Commodity		75.1	L 101 C.	1			
2001 2001 1000 1000 1000 1000 1000 1000	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar, 1925	
CLOTHS AND CLOTHING-Continued	JOHE MY	vi-ne	WTO M	SEXA B	177		
Silk, etc.—Continued.		D-wrote	uck attes	330	NG.		
Silk, raw, per pound, New York— China, Canton, filature, extra A	\$5 694	\$5, 506	\$5. 171	160. 7	157. 4	140.	
Japan, Kansai, No. 1	6. 076	6. 223	5. 831	166. 9	171. 0	147.8	
Japan, special, extra extra	6. 370	6. 517	6. 125	156. 4	159. 9	150	
Silk yarn, per pound, New York— Domestic, gray spun, 60/1	4, 753	4, 733	4, 704	163.0	162. 3	101	
Domestic, gray spun, 60/2, No. 1	6. 096	6. 056	5, 978	175. 8	174. 7	161,	
FUEL AND LIGHTING		Hennes-		167. 9	177.5	174.4	
Anthracite coal, per gross ton	. Labyrd	roy sout it	Section 1	228.4	224.9		
Average spot price for 8 cities—				220. 1	224. 9	222,	
Average spot price for 8 cities— Chestnut	13. 992	13. 955	13. 764	(1)	(1)	(1)	
EggPea	10. 285	13. 347 10. 285	13, 250 10, 190	(1)	(1)	(1)	
Tidewater, New York, average sales realization-		10, 200	10. 100	(.)	(.)	(1)	
Broken	11. 490	(1)	(3)	258. 4			
Chestnut Egg		11. 745 11. 482	10. 949 10. 913	221. 1 226. 6	221. 0 226. 8	206 215	
Stove		11. 731	11. 277	213. 8	231. 8	222	
Ditominous soal		1.000	nettro)	200. 1	100 r	107	
Baltimore, per net ton, mine run, pools 1-11-71	4. 640	4.850	4. 640	(1)	196. 5 (1)	195,	
Birmingham, per net ton—	2, 590	2, 590	2, 590	(1)	(1)	(1)	
Mine run, Jagger district Prepared sizes, Jagger district		4, 340	3. 710		(1)	(1)	
Screenings, Jagger district		2. 190	2, 190	(1)	(1)	(1)	
Chicago, per net ton— Mine run, southern Illinois	4, 450	4, 450	4, 450	(1)	(1)	(1)	
Prepared sizes, southern Illinois	5, 072	4. 760	4. 675	(1)	(1)	(1)	
Screenings, central Illinois	3, 330	3. 388	3, 588	(1)	(1)	(1)	
Cincinnati, per net ton— Mine run, Kanawha	3, 390	3, 390	3, 390	154. 1	154. 1	154.	
Mine run, New River	3. 990	3. 990	3, 990	165, 4	165. 4	165.	
Cleveland, per net ton—		0 500	0 540	(4)	(1)	405	
Mine run, Ohio, Pittsburgh, No. 8. Prepared sizes, West Virginia, high volatile.	3. 603 4. 690	3. 590 4. 478	3. 540 4. 450	(1)	(1)	(1)	
Screenings, Ohio, Pittsburgh, No. 8	3. 165	3. 040	3. 100	(1)	(1)	(1)	
Norfolk, Va., mine run. Pocahontas, per gross ton	4, 500	4. 500	4. 500	150, 0	150.0	150,	
Pittsburgh, prepared sizes, per net ton	4. 000 3. 770	4. 000 3. 434	4, 000 3, 490	(1)	(1) (1)	(1)	
St. Louis, per net ton—		0. 101	a similar	11120-533	(-)	(-)	
Mine run, southern Illinois	3. 160	3. 160	3. 000	(1)	(1)	(1)	
Prepared sizes, southern Illinois Screenings, southern Illinois		3. 785 2. 760	3, 510 2, 860	(1)	(1)	(1)	
		1	r augel	1112-012	41.		
Other fuel and lighting			******	132.9	154.8	159.	
Alabama, foundry, per net ton, at oven	4.750	5, 094	5, 225	(1)	(1)	(1)	
Connellsville, furnace, per net ton, at oven	4. 638	4 075	3. 520	190. 1	167.0	144.	
Fuel oil, f. o. b. refinery— Oklahoma, 24-26, per barrel	1, 331	1. 325	1. 140	147.6	146. 9	126.	
Pennsylvania, 36-40, per gallon	. 065	. 068	. 064	(1)	(1)	(1)	
Gasoline-		entro-at	out les	of miles to		101	
Motor, per gallon, tank wagon, New York Motor, per gallon, f. o. b. refinery—	. 170	. 210	. 205	101. 0	124.8	121.	
Oklahoma, 58-60	. 084	. 124	.111	(1)	(1)	(1)	
Pennsylvania, 58-60	. 113	. 146	• 140	(1)	(1)	(1)	
Natural, per gallon, f. o. b. refinery, Oklahoma, Grade B	. 084	, 113	. 096	(1)	(1)	(1)	
Crude petroleum, per barrel, at well-	A 17		DOT TWO	01 (000 pt 30)	BRES DE CO		
California	1. 010	1. 270 1. 738	1. 270 1. 800	288. 6 138. 4	362. 9 186. 0	362. 192.	
Kansas-OklahomaPennsylvania	1. 293 3. 063	3. 625	3. 670	125. 0	148. 0	149.	
Refined petroleum, per gallon, New York— Standard white, 110° fire test. Water white, 150° fire test.		What h	Children to	oligos sil	ofn an		
Standard white, 110° fire test.	. 135	. 135	, 135	156. 4	156. 4	156. 174.	
<sup>1</sup> No. 1913 base price.	. 145	, 145	. 145	174. 4	174.4	4 4 21	

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<sup>1</sup> No. 1913 base price.

165. 152. 0 175. 152.0 No quotation.

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Section and Section Section Co.	Av	erage pri	ces		ex numb 913=100	
Commodity			The state of	1		
1 con 200 Mar 190 Mar 190 Mar	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar., 1925
METALS AND METAL PRODUCTS	benefit	20	4.18917	136.3	135.6	133.7
Iron and steel				145.7	146.1	145.1
Iron ore, per ton, lower lake ports— Mesabi, Bessemer, 55 per cent	AF 400	\$5, 400	0257 1570	100 1	100	
Non-Rossemer, 5116 per cent	4 750	4, 750	\$5. 400 4. 750	130. 1 139. 7	130. 1 139. 7	130. 1 139. 7
Pig iron, per gross ton— Basic, valley furnace Bessemer, Pittsburgh Foundry, No. 2, northern, Pittsburgh Foundry, No. 2, southern, Birmingham, Ala.				100000000	eral stee	Day 12
Basic, valley furnace	21. 875	22. 000 24. 510	21. 300 24. 060	148. 8 143. 8	149. 6 143. 1	144.8
Foundry, No. 2, northern, Pittsburgh	24. 135	23. 760	22. 860	150. 8	148. 4	142.8
Foundry, No. 2, southern, Birmingham, Ala	20.000	20. 000	20, 000	171, 1	171. 1	171.1
Ferromanganese, per gross ton, seaboard	111. 200	115. 000 33. 375	115, 000 33, 000	190. 9 129. 0	197. 3 133. 5	197. 3 132. 0
Bar iron, per pound—	52. 200	00.010	00.000	120.0	100. 0	102.0
Best refined, Philadelphia	. 031	. 031	. 031	163. 5	163. 5	163. 5
Common, Pittsburgh  Bars, reinforcing, per 100 pounds, Pittsburgh	2.100	2. 150	2.200	181.8	184. 8	184.8
Nails, wire, per 100 pounds, Pittsburgh	2.950	2. 950	2. 950	152. 6 162. 2	156. 3 162. 2	159. 9 162. 2
Pine cast-iron, 6-inch, per net ton, New York	55, 100	55. 100	53. 500	235. 8	235. 8	228. 9
Skelp, grooved, per 100 pounds, Pittsburgh	2.000	2. 100	2. 100	143. 9	151. 1	151.1
Steel billets, per gross ton, Pittsburgh— Bessemer	37. 000	37, 000	36, 700	143. 5	143. 5	142.3
Open hearth	38. 000	38. 000	37. 100	145. 6	145. 6	142.2
Steel, merchant bars, per 100 pounds, Pittsburgh		2. 100	2. 100	135. 6	135. 6	135. 6
Steel plates, tank, per pound, Pittsburgh Steel rails, per gross ton, Pittsburgh—	. 020	. 020	. 020	135. 1	135. 1	135. 1
Bessemer, standard	43, 000	43. 000	43. 000	153. 6	153. 6	153. 6
Open hearth, standard	43. 000	43. 000	43. 000	143. 3	143. 3	143. 3
Steel sheets, black, per pound, Pittsburgh	2.100	2, 050	2, 100	162. 6 139. 0	162. 1 135. 7	157. 5
Terneplate, 8 pounds I. C., per base box (220 pounds),	2.100	2.000	2. 100	100.0	100. 1	139.0
Pittsburgh	11. 500	11. 500	11. 500	165. 8	165. 8	165. 8
Tin plate, domestic coke, per 100 pounds, Pittsburgh	5. 500	5. 500	5. 500	154. 6	154. 6	154. 6
Wire, per 100 pounds— Barbed, galvanized, Chicago	3, 650	3, 650	3, 650	158, 1	158. 1	158.1
Plain, fence, annealed, Pittsburgh	2.750	2.800	2.790	181. 8	185. 1	184. 5
Nonferrous metals	NON	27080 3	1	115.5	112.4	108.3
Aluminum, per pound, New York	. 270	. 270	. 270	114. 2	114. 2	114. 2
Copper, ingot, electrolytic, per pound, refinery	. 148	. 145	. 140	94. 0	92. 2	89. 2
Copper wire, bare, per pound, New York	. 218	. 218	. 212	102. 6 103. 3	102.6	100. 1
Lead, pig. per pound, New York	. 173	.173	. 088	235. 5	103. 6 215. 5	100, 1 200, 5
Lead, pig, per pound, New YorkLead pipe, per 100 pounds, New York	11.612	11. 189	10. 309	228. 5	220. 2	
Quicksilver, per pound, New York	1.088	1.050	1.085	192.6	185. 8	
Silver, bar, fine, per ounce, New York Tin, pig, per pound, New York	. 688	. 689	. 682	112. 4 129. 7	112. 4 127. 0	
Zine, sheet, per 100 pounds, factory Zine, slah, per pound, New York	10. 120	9. 840	9. 554	139. 7	135. 8	
Zine, slab, per pound, New York	. 081	. 078	. 076	139. 6	134. 5	130. 5
BUILDING MATERIALS		0.720	EXE 27	179.8	182.8	179.8
						1000
Douglas fir, per 1,000 feet, mill—				190.3	197.5	192.9
No. 1, common boards	19. 500	18. 500	18. 500	211.8	200. 9	200. 9
No. 2 and better, drop siding	36. 000	36, 000	36. 000	207. 7	207. 7	207. 7
Gum, sap, firsts and seconds, per 1,000 feet, St. Louis.	55. 500	55. 500	52, 300	268. 3	268. 3	
Hemlock, northern, No. 1, per 1,000 feet, Chicago Maple, hard, No. 1, common, 4/4, per 1,000 feet,	35, 500	35, 500	35. 500	168. 3	168. 3	168. 3
Chicago	65, 500	65, 500	65, 000	217.3	217.3	215, 7
Oak, white, plain, No. 1, common, 4/4, per 1,000 feet,	000	02 000	02 400	Manual 9	177.0	177
Cincinnatí Pine, white, No. 2 barn, per 1,000 feet, Buffalo, N.Y	65, 000 55, 000	65, 000 55, 000	63, 400 55, 000	175. 6 188. 2	175. 6 188. 2	
Pine, yellow, flooring, long leaf, B and better, per 1,000	35, 000	00.000	00.000	100. 2	100. 2	100.
feet, New York 2	100.000	105, 000	105. 000	224. 3	235. 5	235, 8
Pine, yellow, southern, per 1,000 feet, mill—	23, 670	23, 860	23. 480	185. 9	187. 4	184. 4
Boards, No. 2, common, 1 x 8 2			46. 880	203. 8	205, 4	
Timbers, square edge and sound	26, 260	31. 900	(8)	179. 4	218. 0	
Poplar, No. 1, common, 4/4, per 1,000 feet, Cincinnati.	61. 750 34. 875	61. 000	54, 200 34, 600	186. 9 160. 9	184. 7 159. 2	
Spruce, eastern, random, per 1,000 feet, Boston Lath, yellow pine, No. 1, per 1,000, mill	4. 040			132. 9	135. 3	
Shingles—	47.788E	Abstract	10130 X30	00, 300	dittis x	Cepter
Cypress, 16 inches long, per 1,000, mill	6.000			169. 4	169. 4 131. 2	
Red cedar, 16 inches long, per 1,000, mill	. 2.000	2. 000	2.000	102.2	1 101. 2	1 102

Not included in weighted index.
Quotation not received.

7.8 0.2 0.3 1.3 2.4 4.4

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54.1 65.4

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62.9 92.7 19.8

56.4 74.4

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	(OOI = EIRI)  Commodity					A	verage pr	rices	Ind (1	ex num 1913=100	ers
		C		y			1 8	THE RESTRICT	7		1
Mar.	Eeb.,	Lang	1823	Feb., 1925	Jann.	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar. 1925
188.2	BUILD	ING M	ATERIA	L8-Co	ntinued	- R1000	087 J	ATTE	S AND	LTar	
Run	of kiln, f.	. o. b. p	lant, Chi	icago 1		8. 450	8. 520	8. 510	208.1 208.2 171.1	208.5 208.6 172.5	208. 208. 172.
Structi	iral steel								139.1	185.7	139.
Other 1	uilding	materi	als		201.60	-			169.6	169.6	
Sin I Bu No Crush	ent, Port nple aver ndiana, ffington, rthampte hed stone	land, prage of Minneso Ind	er barrel, 6 plant p ota, Texa	f. o. b. prices in s, and C	plant— Pennsylvania Palifornia  1, New York age of 28 plan	1. 797 1. 735 1. 750 1. 750	1. 800 1. 750 1. 750 1. 750	1. 800 1. 750 1. 750 1. 750	173. 0 171. 6 196. 6 194. 4	173, 3 173, 1 196, 6 194, 4	167. 173. 173. 196. 194.
Hollo	w tile, b	uilding,	per bloc	k, Chica	goplant, simple	. 060	.995	.972	201. 0 03. 8	201. 4 93. 8	196. 93.
ave	rage of 1	plant	prices	fob	factory 2	9. 462	9, 433	9, 386	229, 2	228. 7	227.
Shi:	dium we ngles, inc ngles, str	ight tividua	L		imple average	5. 083	1. 653 5. 182 5. 088 1. 925	1. 662 5. 182 5. 074 1. 934	(1) (2) (3) (4)	(1) (1) (1) (1)	(1) (1) (1) (1)
Slate,	I plant p	TICES	L DOOL EAL I	J000 J08 _	b. quarry	- 659	. 665 12, 000	. 651 12. 000	172.9 250.5	174. 5 259. 5	170. 259.
3 to 5 to	5 square	re feet. 1	er square per squar o. works-	e foot. N	ew York lew York	. 430	. 430	. 430	181. 7 190. 1	181. 7 190. 1	181. 190.
Sing Sing Linse Putty Rosin Turpe White Zinc Coppe Coppe Lead Nails. Reinfe Roofe	gle A, pe gle B, pe ed oil, pe ed oil, pe a, comme centine, sc e lead, A) oxide (wh cast iron er, sheet, er wire. pipe. (See M orcing be one tin ducts.)	r 50 squ r 50 squ r 50 squ er gallor er gallor	pare feet  are feet  are feet  per pound  d (B), pe  barrels,  in oil, pe  per po  Metals a  Metals and  als and n  and metals  metals and retals  metals and retals	ork, New Yer barrel, per gallo er pound und, Ne nd metal protectal product and metal er Metal product and metal product and metal product and metal product and metal er Metal	fork New York New Yor	3, 249 1, 162 040 8, 238 929 165 . 070		.070	150. 4 146. 3 251. 5 150. 9 171. 0 217. 1 243. 3 130. 1	150. 4 146. 3 251. 6 150. 9 171. 8 219. 1 240. 4 130. 1	150. 146. 240. 157. 214. 236. 130.
179.	СН	EMICA	LS AND	DRUG	8				135.2	134.5	134.
Chemic	als	109		******			4		128.2	126.8	126.
Mu Niti Sali Stea Sulr	riatic, 20 ric, 42° cylic, U. aric, tripl churic, 6	S. P., 1 e presse	per gallon	, New Y	Tork		.031 .009 .058 .350 .163	.031 .009 .058 .350 .167 .007	160. 8 69. 2 117. 8 123. 5 121. 7 70. 0	160. 8 69. 2 117. 8 123. 5 123. 1 70. 0	160. 69. 117. 123. 126. 70.
Alum, Ammo Benzo Bleach Borax	od, refine , lump. r onia, and ol, pure, p hing pow , crystals	ed, 95 poper pour lydrous per gallo der, per and gra	nd, New , per pou on, f. o. b r 100 pour	York nd, New works	v York w York nd, New York	. 680 . 035 . 300 . 244 . 1.900	. 594 . 680 . 035 . 300 . 233 1. 900 . 050	. 575 . 680 . 035 . 300 . 240 1. 900 . 050	164. 0 142. 2 200. 0 120. 0 89. 5 161. 0 133. 3	162. 3 142. 2 200. 0 120. 0 85. 3 161. 0 133. 3	157. 142. 200. 120. 88. 161. 133.
Blac Brow Indi	wn, sulp	hur, per r cent,	per poun	New You	York york , per pound,	. 200	.350 .200 .178	.350 .200 .175	109.4 90.9 112.8	109. 4 90. 9 98. 6	109. 90. 97.
Copra	York	Sea. (8	ee Foods	.)	works	.048	.140	.140	92.7	92.7	92

<sup>&</sup>lt;sup>1</sup> No 1913 base price.

<sup>&</sup>lt;sup>3</sup> Not included in weighted index.

Average prices and and a factor of the state	A	verage pr	rices		ex numb 913=100	
Commodity		1	M. Comman	0		1
Total Test State S	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar., 1925
CHEMICALS AND DRUGS-Continued	autilities'	7.00	n oxii	RIVEU		
themicals—Continued.	l III		TO ITA	ND. A	12.00	
Formaldehyde, per pound, New York	\$0.090	\$0.090	\$0.090	106.7	106.7	106.7
Oil, vegetable— Coconut, crude. (See Foods.)	10,50	the own	na kiliking	7 C , hore	lie ,mid	
Corn, crude. (See Foods.)	- Indivo	101711	i out no	TOURSE !	100 B-200	
Palm kernel, crude, per pound, New York Soya bean, crude. (See Foods.)	. 103	. 101	.099	102.0	99.6	98.4
Potash, caustic, 88-92 per cent, per pound, New York.	.073	.076	.076	203.4	214.1	214.1
Sal soda, per 100 pounds, New York	1.100	1.100	1.100	183.3	183. 3	183. 3
Soda ash, 58 per cent, light, per 100 pounds, New York Soda, bicarbonate, American, per pound, f. o. b.	2. 290.	2. 290	2.290	392.6	392.6	392.6
WOFKS	.018	.018	.018	175.0	175.0	175.0
Soda, caustic, 76 per cent, solid, per pound, New York.		.038	.038	257.5	257.5	257.5
Soda, silicate of, 42°, per 100 pounds, New York Sulphur, crude, per gross ton, New York	14,000	14,000	.800	125.8	125.8	125. 8 63. 6
Tallow, inedible, packers' prime, per pound, Chicago	.104	. 094	.098	68. 6 146. 8	63. 6 132. 7	139.0
THE RESERVE TOO DOO DOO		.001	.000	140.0	Atkan 1	195.0
Fertilizer materials.				105.5	106.0	106.8
Acid phosphate, 16 per cent basis, bulk, per ton, New York	9,000	9,000	9,000	116.9	116.9	116.9
Ammonia, sulphate, double bags, per 100 pounds,	0.000	5. 000	5.000	140.0	110. 8	110. 5
New York	3.075	3.075	3.075	98.5	98.5	98.5
Ground bone, steamed, per ton, Chicago	20.000	20.000	20.000	99.4	99.4	99.4
Muriate of potash, 80-85 per cent, K. C. L. bags, per ton, New York	34, 550	34,550	34, 550	90.7	90.7	90.7
Phosphate rock, 68 per cent, per ton, I. o. b. mines	2. 100	2. 100	2.100	61.6	61.6	61.6
Soda, nitrate, 95 per cent, per 100 pounds, New York	2.612	2.061	2.674	105.8	107.8	108.3
Tankage, 9 and 20 per cent, crushed, per ton, f. o. b. Chicago.	29, 900	29, 900	31,700	128.0	128.0	135.7
UHUNBUS SESSEES SESSES	29. 900	20. 000	31.700	120.0	120.0	100.3
orngs and pharmaceuticals				180.4	180.3	179.8
Acid, citric, domestic, crystals, per pound, New York	. 460	. 460	. 458	105.7	105.7	105. 1
Acid, tartaric, crystals, U. S. P., per pound, New York	. 290	. 290	. 290	95.1	95.1	95, 1
Alcohol, grain, 188 proof, U. S. P., per gallen, New			44501554	recording to	COLUMN	THE SE
York	4. 880	4.874	4.855	195.3	195.0	194.3
Cream of tartar, powdered, per pound, New York Epsom salts, U. S. P., in barrels, per 100 pounds,	. 213	. 213	. 213	89.3	89. 3	89. 3
New York	2,500	2,500	2.500	227.3	227.3	227.3
Glycerin, refined, per pound, New York. Opium, natural, U. S. P., per pound, New York.	. 190	. 190	.190	96.4	96.4	96.4
Opium, natural, U. S. P., per pound, New York	12.000	12.000	12.000	199. 4	199.4	199.4
Peroxide of hydrogen, 4-ounce bottles, per gross, New York	8.000	8,000	8.000	200, 0	200.0	200.0
Phenol, U. S. P. (carbolic acid), per pound, New	0.000	0.000	0.000	200.0	Int. Book	Pager
York	. 230	. 230	. 230	209.4	209.4	209.4
Quinine, sulphate, manufacturers' quotations, per ounce, New York	. 500	. 500	. 500	227.7	227.7	227.7
ST THE POST OF THE	111111111111111111111111111111111111111		Jan sales	1	100	
HOUSE-FURNISHING GOODS				172.6	172.5	176.1
urniture 0.81: Doo A 1850 A 1859 E	W			153.5	158.5	150.2
Bedroom-				100.0	100.0	100.2
Bed, combination, per bed, factory	32.000	32.000	32. 000	142. 2	142.2	142.2
Chair, all gum, cane seat, per chair, factory	4, 500	4. 500	4. 000	200.0	200.0	177.8
Chifforette, combination, per chifforette, factory		36. 000	34. 000	110.8	110.8	104. 6 133. 3
Dresser, combination, per dresser, factory	49, 000	49. 000	48. 000	136. 1	136. 1	227. 2
Rocker, quartered oak, per chair, Chicago Set, three pieces, per set, Chicago	4. 655 31. 115	4. 655 31. 115	4. 655 31. 115	227. 2 163. 9	227. 2 163. 9	163. 9
Dining room—	OL. 110	JL. 110	01. 110	100.0	200.0	100.0
Buffet, combination, per buffet, factory	50.000	50.000	48.000	116. 3	116.3	111.6
Chair, all gum, leather slip seat, per six, factory	33. 000	33. 000	31.000	220. 0	220.0	206. 7
Table, extension, combination, per table, factory	30. 000	30. 000	30.000	162. 2	162. 2	162. 2
Living room— Davenport, standard pattern, per davenport, fac-	Darciest	pag alas	marieta de	PUTE TELES AND	(cotza M	Louis
tory	63. 000	63. 000	63. 000	182.6	182.6	182.6
. Table, library, combination, per table, factory	32.000	32. 000	30, 000	160. 0	160. 0	150. 0
Kitchen—	17. 640	17. 640	17. 640	276.9	276.9	276. 9
Chair, hardwood, per dozen, Chicago		17.010	17. 010	164. 7	164.7	164. 7
Table, with drawer, per table, Chicago	4. 263	4, 263	4, 263	300. 0	300.0	

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the region would edge at y	A	verage pr	ices	Ind (1	ex numb 1913=100	ers
Commodity	Jan., 1925	Feb., 1925	Mar., 1925	Jan., 1925	Feb., 1925	Mar., 1925
HOUSE-FURNISHING GOODS-Continued	Petroles	00-80	198.07	A edi	(,)).	
Furnishings				235.1	234.9	235.8
		\$1,400	\$1,400	242.2	001 4	1
Cotton, colored, 2 pounds to the pair, per pair	1, 416	1.416	1. 416	185. 0	231. 4 185. 0	231.4 185.0
Axminster, Bigelow Brussels, Bigelow	3. 024	3. 024	3. 024 3. 168	225, 8 245, 2	225. 8 245. 2	225.8
Cutlery—	5. 280	5, 280	5, 280	219. 3	<b>21</b> 9. 3	245.2 219.3
Carvers, 8-inch, per pair, factory	1. 350	1. 350	1. 350	180. 0	180.0	180.0
Knives and forks, per gross, factory—Pails, galvanized iron, 10-quart, per gross, factory—Sheeting, bleached, 10/4, factory—	23. 104	15. 000 23. 200	15, 000 23, 200	260. 9 157. 5	260. 9 158. 2	260.9 158.2
Pepperell, per yard	. 467 1. 140	. 467 1. 140	. 475 1. 140	195. 2 294. 5	195. 2 294. 5	198.4 294.5
Tableware— Glass nappies, 4-inch, per dozen, factory	. 200	. 200	. 200	181. 8	181. 8	181.8
Glass pitchers, 1/2-gallon, per dozen, factory	2, 250	2, 250	2. 250	281. 3	281. 3	281.3
Glass tumblers, 1/2-pint, per dozen, factory Plates, white granite, 7-inch, per dozen, factory	. 200	, 200 . 980	. 200	166. 7 211. 5	166. 7 211. 5	166.7 211.5
Teacups and saucers, white granite, per dozen,	1. 260	1. 260	1. 260	221. 0	221. 0	221.0
Ticking, Amoskeag, A. C. A., 2.85 yards to the pound, per yard, factory	, 260	2.60	. 260	193, 2	193. 2	100 0
Tubs, galvanized iron, No. 3, per dozen, factory	6. 777	6. 825	6. 825	165. 0	166. 2	193.2 166.2
MISCELLANEOUS	N SHILL W.			127.1	124.5	125.4
attle feed	22.5000			154.9	130.0	127.3
Bran, per ton, Minneapolis Cottonseed meal, prime, per ton, New York	30. 125	24. 531 35, 000	23, 400 37, 500	164. 0 132. 5	133. 6	127,4
Linseed meal, per ton, New York	49, 600	46. 750	41. 500	132. 5	123. 6 164. 5	132,5 146,0
Mill feed, middlings, standard, per ton, Minneapolis.	33. 500	25, 844	23, 825	172. 2	132, 9	122.5
ather				150.5	153.2	153.2
Calf, chrome, B grade, per square foot, Boston	. 500	. 500	. 500	185, 5 279, 6	185, 5 279, 6	185, 5 279, 6
Harness, California oak, No. 1, per pound, Chicago	. 431	. 441	. 441	107. 5	109. 9	109.9
Side, black, chrome, B grade, per square foot, Boston	. 310	.310	. 310	121. 2	121. 2	121.2
Oak, in sides, middle weight, tannery run, Boston		.380	.380	127. 5	127. 5	127.5
Oak, scoured backs, heavy, Boston	. 500	. 520	. 520	114.4	115.9	115.9
Union, middle weight, New York	. 453	. 490	. 490	112.8	122, 1	122,1
aper and pulpPaper—	****	*****	******	165.0	158.1	157.7
Newsprint, roll, per pound, f. o. b. mill	. 037	. 037	. 037	178. 9	178.9	178.9
York	. 102	.091	. 091	208, 2	187. 1	187.1
Wood pulp, sulphite, domestic, unbleached, per 100 pounds, New York	2, 625	2.625	2,600	152.0 V20.70	118.0	116.9
ther miscellaneous	4, 020	2, 020	2,000	118.0	104. 9	107.1
Burlap, 101/2 ounce, 40-inch, per yard, New York Cylinder oil, gallon, refinery—	. 096	. 093	. 096	119.3	115. 3	119.7
Oklahoma, medium filtered stock	. 164	. 169	. 183	(1)	(1)	(1)
Pennsylvania, 600, filtered, D. Hemp, manila, fair, current shipment, per pound, New York	. 320	.324	. 325	196, 1	187. 6	(1)
Jute, raw, medium grade, per pound, New York	. 089	.088	. 095	132.3	130. 8	142 0
Lubricating oil, paraffin, 903 gravity, per gallon, New York	. 235	248	. 245	184. 9	173. 7	171.9
Rope, pure manila, best grade, per pound, New York Rubber, Para, island, fine, per pound, New York	. 250	. 250	. 280	170. 4	170. 4 38. 0	190.9
Sisal, Mexican, current shipment, per pound, New	.318	.307	. 346	39. 3		
York Soap—	. 086	. 092	. 092	199.3	213. 4	213.7
Laundry, per 100 cakes, Cincinnati	4. 125	4. 125	4. 125	133. 8	133.8	133.8
Laundry, per 100 cakes, Philadelphia Starch, laundry, bulk, per pound, New York	5. 243	5. 243	4. 911	148. 6 163. 0	148. 6 163. 0	139.2 163.0
Tobacco-	40	200 S (201 D)	Custrason	TO MUNES		
Plug, per pound, New York Smoking, 1-ounce bags, per gross, New York	. 696	. 696	. 696	179. 0	179.0	179.0
Smoking, 1-ounce bags, per gross, New 1 ork	8. 320	8, 320	8. 320	147. 5 160. 0	147. 5 160. 6	161.0
LL COMMODITIES (404 price series)						

<sup>&</sup>lt;sup>1</sup> No 1913 base price.

# Cost of Living, Retail Prices, and Building Costs in Reykjavik, Iceland 1

THE following table shows the trend in the price of each of the items of the cost of living in July, 1914, January and October, 1924, and January, 1925. The budget is that of a family of five persons having an expenditure, before the war, of 1,800 krónur.

COST OF BUDGET OF FAMILY OF FIVE IN REYJAVIK, ICELAND, AT SPECIFIED PERIODS

[Krónur at par = 26.8 cents; exchange rate varies]

		Expend	litures			ex num 7, 1914 =	
Item	July, 1914	January, 1924	October, 1924	January, 1925	Janu- ary, 1924	Octo- ber, 1924	Janu- ary, 1925
Food:	Krónur	Krónur	Krónur	Krónur		pritri	
Bread	132.86	354, 90	382, 20	418, 60.	267	288	315
Cereals	70, 87	164, 41	190. 91	180, 32	232	269	254
Vegetables and fruit, etc.	52, 60	162, 78	204, 09	193, 16	309	388	367
Sugar	67. 00	189, 65	178, 70	134, 35	283	267	201
Coffee, tea, etc	68, 28	128. 62	167. 63	174. 13	188	246	255
Butter and fats	147. 41	361. 90	399. 22	414. 04	245	271	281
Milk, cheese, and eggs	109. 93	303. 26	372. 44	373. 75	276	339	340
Meat and sausage	84. 03	227. 70	268. 74	290. 97	271	320	346
Fish	113. 36	278. 72	413. 92	388. 96	246	365	343
Total	846. 34	2, 171. 94	2, 577. 85	2, 568. 28	257	305	303
Fuel and light	97. 20	274. 90	283. 60	266. 30	283	292	274
Laundry and clothes	272.99		918. 94			337	
Housing	300.00		993, 00			331	
Taxes	54. 75		278. 00			505	
Miscellaneous	228. 72		720. 47			315	
Grand total	1, 800. 00		5, 771. 86			321	

Retail prices of certain commodities in Reykjavik for the same periods are given in the table below:

RETAIL PRICES OF VARIOUS COMMODITIES IN REYKJAVIK, ICELAND, JULY, 1914, JANUARY AND OCTOBER, 1924, AND JANUARY, 1925

[Auer., at par=0.268 cents; exchange rate varies]

Article	Unit	July, 1914	Janu- ary, 1924	October, 1924	Janu- ary, 1925	Per cent of increase, July, 1914, to January, 1925
Rye bread Wheat bread Sitted rye bread Rye flour Wheat flour Wheat flour Wheat (No. 2) Bariey flour Rice Sago Farina Rolled oats Potato flour Beans, whole Peas, split Potatoes Rutabagas Apples	3-kg. loaf 500 gr. loaf do kg do	Auer. 50 23 14 119 31 28 29 31 40 42 32 36 35 33 12 10 56	Auer. 130 65 45 48 70 61 75 71 130 121 73 90 100 97 39 34 172	Auer. 140 70 50 53 81 75 74 82 143 133 82 117 101 100 48 41	Auer. 160 70 50 57 80 69 76 78 129 121 80 105 98 44 43	220 204 257 200 158 146 162 152 223 188 150 192 180 191 267 330 252

<sup>&</sup>lt;sup>1</sup> Iceland: Hagstofu, Hagtidindi, Reykjavik, December, 1924, and January, 1925.

RETAIL PRICES OF VARIOUS COMMODITIES IN REYKJAVIK, ICELAND, JULY, 1014, JANUARY AND OCTOBER, 1924, AND JANUARY, 1925—Continued

produ metals Of t groun Nes bureau one re for 2 1 in Oct Fou poses cordir distric Neva in the includ iron d Misso the " of Ok corne Joplin The the n differ 13 of Of

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d in the price of sach al the v. 1915, Januslina and October, budget is that of a family of ore the way of 1,800 broam	a the tree ag <b>tieU</b> .lu. 25. The diture, be	July, 1914	Janu- ary, 1924	October, 1924	Janu- ary, 1925	Per cen of increase July, 1914, to January 1925
BYELVIE TORLAND, AT SERLINGS	to some	Au.	Au.	Au.	Au.	1
Raisins	Kg	66	193	272	251	2
Prunes		80	158	219	196	1
Apricots, dried	do	186	484	551	506	1 1
Apples, dried		141	321	460	448	2
Sugar, loaf		53	150	149	114	li
Sugar, granulated	do	51	139	131	95	1 1
Sugar, powdered	do	49	145	120	90	
Coffee, unroasted	do	165	297	418	449	1
Coffee, roasted		236	413	588	622	l i
rea		471	979	1, 180	1, 126	i
Chocolate		203	458	684	539	i
0008.	do	265	339	380	363	
Butter, Icelandic	do	196	589	611	641	1 2
Margarine		107	218	256	254	1
Tallow.	do	90	231	246	278	1 2
Milk, sweet		22	50	65	65	1
cheese, whey		50	194	246	234	3
heese, milk, whole		110	397	483	468	1 8
Eggs	Each	8	36	35	38	1 8
Beef, roast, and steaks		100	235	325	296	
Beef, boiling	do	85	186	228	257	1 2
	do	50	146	195	195	1 2
	do	67	160 . 160	192 210	219 203	1 3
Mutton, salted		100	224	280	293	1 - 3
Pork, salted		170	500	530	567	1
Pork, smoked		213	550	600	633	
Fish:		213	000	000	000	1
Haddock, fresh	do	14	50	60	55	1 :
Cod, fresh		14	40	55	55	1
Halibut, fresh		37	110	119	120	
Cod, salted, dried	do	40	68	103	109	
Other fish		13	20	45	45	
Soda	Kg.	12	37	41	40	
loap, laundry	do	43	125	134	127	
oap, soft	do	38	120	127	132	
Soap, toilet	do	46	256	300	312	
Kerosene	Liter	18	36	46	42	1
	/100 kg	288	781	688	667	1
Joal	Skippund	460	1, 250	1, 100	1, 067	1

The table below shows building costs in Reykjavik in 1924 as compared with 1914:

BUILDING COSTS IN REYKJAVIK, ICELAND, 1914 AND 1924, BY ITEM [Krónur at par=26.8 cents; exchange rate varies]

61 A 01   A 01   190	150	19	24			1924		
Item	1914	Amount	Index numbers (1914—100)	1914	Amount	Index num- bers (1914= 100)		
Labor: Carpenters	Krónur 866 319 191 735 2, 209 329	3, 897 1, 477 945 2, 900 6, 653 1, 010	450 463 495 395 301 307	Materials—Continued. Nails Heating equipment Sand and gravel Building paper Paint Glass Miscellaneous.	Krónur 75 389 395 53 242 51 317	Krónur 223 866 1, 788 141 462 149 712	297 223 455 266 191 292 223	
Cement	775 217 52 73	1,829 720 159 213	236 332 306 292	Total	7, 288	24, 144	331	

#### WAGES AND HOURS OF LABOR

#### Wages and Hours of Labor in Metalliferous Mines

HE Bureau of Labor Statistics made a survey of wages and hours of labor in the principal metalliferous mines in the United States during the summer of 1924. The study included mines producing iron, copper, lead, zinc, gold, and silver and some minor metals as well.

Of the 137 mines from which figures were obtained, 117 were under-

ground mines and 20 were open-pit or open-cut mines.

Nearly all of the mines covered were visited by agents of the bureau, who copied the data from the pay rolls. The figures are for one representative pay period at each mine. Pay periods were taken for 2 mines in June, 8 in July, 75 in August, 34 in September, and 18

in October.

Fourteen States were covered in this investigation. For the purnoses of tabulation these States were divided into six districts, according to the kind of metals produced. The "western mixed ore district" includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, and Utah; the "Michigan copper district" is in the upper peninsula of Michigan; the "northern iron district" includes the iron regions of Michigan and Minnesota; the "Alabama iron district" is in the northern part of Alabama; the "southeastern Missouri lead district" is in the southeastern part of Missouri; and the "tri-State lead and zinc district" includes the northeast corner of Oklahoma, the southeast corner of Kansas, and the southwest corner of Missouri. The last-named is sometimes referred to as the Joplin district.

The "western mixed ore district" was so named because most of the mines in that district produce ore containing from two to five

different metals with many variations in the combination. Only 13 of the mines covered in the district reported but one metal product. Of the 20 open-pit mines, 3 are copper mines in the "western mixed ore district," 13 are iron mines in Minnesota, and 4 are iron mines in Alabama. In these open-pit or open-cut mines the ore is

mined with steam or electric shovels.

The underground mines are of different types, designated as shaft, slope, or drift. A shaft mine is one in which the entrance is a vertical The slope mine is entered through a downward incline. The drift mine is one in which the ore vein is followed through a horizontal entrance. Some of the shaft mines are very deep, one being

reported as having a depth of 8,700 feet.

In this survey a total of 38,196 employees were scheduled. Because of duplication, due to the fact that some employees worked at two or more occupations during the pay period scheduled, the table which follows covers 41,369. Each employee was tabulated under each occupation at which he worked. The number of duplications Was 3.173.

The table which follows is divided into two sections, devoted to underground mines and open-pit mines, respectively. In the underground section, 46 of the principal occupations were selected and treated separately. Employees not included in these selected occu-

[1033]

pations are tabulated as a separate group designated as "other employees." Of the 46 selected occupations, 23 are underground occupations, 11 are surface occupations, and 12 are occupations in which the men are employed either above or below ground as occasion requires." Other employees" are both surface and underground workers.

In the open-pit mines 21 occupations were selected for separate tabulation, and "other employees" were treated as a separate group

as in the tabulation of underground mines.

The table shows the number of establishments, the number of employees, average full-time hours per week, average earnings per hour, and average full-time earnings per week, for each district, in each of the selected occupations.

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AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924

[Western mixed ore district includes Arizona, California, Colorado, Idaho, Montana, Nevada, New Mexico, and Utah; northern iron district includes Michigan and Minnesota; tri-State lead and zine district includes northeastern Oklahoma, southeastern Kansas, and southwestern Missouri]

#### Underground mines

Occupation and district	Number of establishments	Num- ber of em- ployees	Average full-time hours per week	Average earnings per hour	A verage full-time earnings per week
Blacksmiths (surface and underground):	119	A	Same of	Vi alli	
Western mixed ore	45	111	52.1	\$0,700	\$36,47
Michigan copper		40	54.0	.445	24.08
Northern iron	34	88	57.3	.529	30.31
Alahama iron	4	22	63.3	. 554	35.07
Southeastern Missouri lead	3	8	49.0	. 594	29.11
Tri-State lead and zinc	18	23	48.0	.615	29.50
Blacksmiths' helpers (surface and underground): Western mixed ore.	D 300 100 100	100/0737	52.0	H11112000	29.74
Michigan conner	6	108	54.0	. 572	19.12
Michigan copper		69		.354	
Northern iron	30	77	57.6	.426	24.54
Alabama iron Southeastern Missouri lead	4 3	27	60.0 48.0	. 367	22.02
Southeastern Missouri lead	3			. 531	25, 49
Tri-State lead and zinc		10	48.0	. 513	24.60
Cagers (underground): Western mixed ore	- 04	- 00	***	200	20.00
Western mixed ore	24	99	52.3	. 638	33.3
Northern iron	11	19	48.0	. 567	27.2
Carpenters (surface and underground):	- 00	100	20.1	Part.	00.0
Western mixed ore	39	103	53.1	.717	38.0° 22.9°
Michigan copper	6	71	53.9	.425	
Northern iron		132	55.6	. 532	29.5
Alabama iron Southeastern Missouri lead	3	38	60.0	. 531	31.8
Southeastern Missouri lead	1	1	48.0	. 587	
Tri-State lead and zinc	7	17	52.7	. 691	36.4
Carpenters' helpers (surface and underground):	- 01	00	52.7	****	28.0
Western mixed ore	21	36		. 532	19.6
Michigan copper Northern iron	0 8114	1101 41	54.0	.363	24.4
Northern Iron	14		58.4	.419	22.5
Alabama iron Southeastern Missouri lead	91951	42	60.0	.375	27.3
Southeastern Missouri lead	4			. 309	23.5
Tri-State lead and zinc	9 5	6	52.0	. 400	20.0
Chute loaders (underground): Western mixed ore	12	114	54.5	. 626	34.1
Western mixed ore	4	304	48.0	.503	24.1
Michigan copper	17	146	47.3	. 540	25.5
Northern iron Alabama iron	251	140	60.0	.300	18.0
Contheastern Misseuri lead		31	48.0	. 557	26.7
Southeastern Missouri lead. Compressormen (surface and underground):	3	01	20.0	. 301	20.1
Compressormen (surface and underground);	31	77	55. 9	, 662	37.0
Western mixed ore	6	23	56.9	.446	25.3
Michigan copper		23	63.0	.449	28.2
Northern iron	9	111	73.1	.395	28.8
Alabama iron Southeastern Missouri lead	3 4	10	51.8	. 554	28.7
Southeastern Missouri lead	6	10	84.0	.411	34.5
Tri-State lead and zinc  Drilling machine operators (company miners, under-	0	10	01.0	. 411	- 01.0
Drining machine operators (company miners, under-	CV -	oregraff.	A History	in water w	
Western mixed ore	45	2,927	53.2	.617	32.8
Western mixed ore	4	523	48.0	.557	26.7
Michigan copper		1, 103	47.4	.614	29.1
Northern iron	4	310	80.0	.483	28.9
Alabama iron		169	48.0	. 577	27.7
Southeastern Missouri leadTri-State lead and zinc	22	295	48.0	.497	23.8

AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924—Contd.

#### Underground mines-Continued

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2.82 6.74 9.10 8.98 7.70 3.86

Occupation and district	Num- ber of estab- lish- ments	Num- ber of em- ployees	A verage full-time hours per week	Average earnings per hour	Average full-time earnings per week
Drilling machine operators (contract miners, under-		+		100,100,100	
ground):				1	culmia.
Western mixed ore	24	1,628	51.5	\$0.778	\$40.07
Michigan copper	4	686	48.0	.676	32. 45
Northern iron Alabama iron	28	3, 528	60,0	.717	33, 99 49, 26
Southeastern Missouri lead 1	. 4	68	48.0	.712	34, 18
Drilling machine operators' beloers (underground):				moot st	William Steel
Western mixed ore		48	53.5	. 679	36. 33
Northern iron Alabama iron		169	46. 5 60. 0	. 535	24. 88 23. 58
Southeastern Missouri lead	1	109	48.0	. 569	27.31
Tri-State lead and zinc	22	333	48.0	. 438	21.02
Drivers (surface):				Section 171	definite.
Western mixed ore	7	9	54.7	. 568	31.07 19.33
Michigan copper Northern iron	25	22 50	54. 0 59. 0	. 358	24, 19
Alabama iron	2	19	60.0	.334	20.04
Tri-State lead and zinc	2	4	48.0	. 609	29. 23
Drivers, mule (underground):			1.0	O-T-OCHINE	
Western mixed ore		105	51.0 48.0	.547	27. 90 19. 20
Northern iron		10	47.7	. 550	26, 24
Alabama iron	2	76	60.0	. 267	16.02
Southeastern Missouri lead	3	68	48.0	. 624	29.95
Tri-State lead and zinc	16	- 88	48.0	. 444	21. 31
Dryhousemen (surface): Western mixed ore	26	60	53.3	- , 499	26, 60
Michigan copper		33	55.3	.324	17.92
Northern iron		68	63.0	. 394	24.82
Alabama iron	3	10	76.8	. 270	20.74
Southeastern Missouri lead	4	8	59.0	.417	24.60
Dumpers (surface): Western mixed ore	9	40	54.6	. 536	29, 27
Northern iron	5	18	57.4	. 445	25, 54
Electricians (surface and underground):		- 100	-	12 2000 10	N/1511
Western mixed ore	38	94	53.0	.733	38. 85
Michigan copper Northern iron	28	26 53	51.7 56.4	. 465	29.89
Alahama iron	1 4	18	64.0	. 537	34. 37
Southeastern Missouri lead	1	2	48.0	. 575	27.60
Tri-State lead and zine	1	1	56.0	.714	39.98
Electricians' helpers (surface and underground): Western mixed ore	23	53	52.4	, 598	31, 34
Michigan copper	6	9	54.0	. 368	19. 87
Northern iron	12		55.0	. 440	24. 20
Engineers, stationary (surface):			Law-weighted	O I SHARE	
Western mixed ore	8	26	55. 1	. 643	35. 43 25. 83
Michigan copper Northern iron	1 12	35	61. 5 55. 3	472	26, 10
Alabama iron	2	4	66. 0	.314	20.72
Tri-State lead and zinc	4	6	70.0	. 470	32.90
Firemen, stationary (surface):		100		704	90 50
Western mixed ore	13		55.7	. 584	32. 53 23. 98
Northern fron	22		61. 3	493	
Alabama iron Tri-State lead and zine	4		75. 6	. 304	22.98
Tri-State lead and zinc	5	7	80.0	. 329	26. 32
Hoistmen (surface):	Land was	190	***	.727	39, 55
Western mixed ore Michigan copper	34		54. 4	.473	25, 31
Northern iron	33		59.0	. 484	28. 56
Alabama iron Southeastern Missouri lead	4	16	71. 3	. 502	35. 79
Southeastern Missouri lead	4		55. 0		
Tri-State lead and zinc	22	61	54.4	. 530	28. 83
Western mixed ore	30	117	53. 7	. 678	36. 41
TOTAL MINOU VI VIII CONTROL CO	1	4	48.0		20. 54
Michigan copper					
Michigan copper Northern iron	6		47.3		
Michigan copper	6 3	33	60. 0 48. 0	. 386	23. 16

<sup>&</sup>lt;sup>1</sup>Not including 54 contract men who have from 1 to 4 helpers, and make a profit from the helpers' labor in addition to their own earnings. Their average income was \$0.902 per hour.

AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924—Continued

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Occupation and district	Number of establishments	Num- ber of em- ployees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week
Aborers (underground):	Welst.		d in	note: ha	
Michigan copper	3	157	48.0	\$0.474	\$22.7
Northern iron		52	47.3	. 503	23, 7
Alabama iron Southeastern Missouri lead	3	250 60	60. 0 48. 4	, 330	19.8
Tri-State lead and zinc	20	206	48.0	. 434	27. 7 20. 8
oading machine operators (underground):	2-1910	-		NO2/30:	
Western mixed ore	2	3	53. 3	. 696	37.1
Michigan copper Northern iron		35	48. 0 47. 5	. 413	19.8 31.7
Alabama iron	1	49	60.0	.510	30.6
Southeastern Missouri lead	4	53	48.0	. 719	34.5
Tri-State lead and zinc	1	1	48.0	. 563	27,0
Western mixed ore	45	167	52.0	.701	36.4
Michigan copper	6	73	53, 8	. 478	25. 7
Northern iron		86	57.6	. 528	30,4
Alabama iron Southeastern Missouri lead.	4	32 15	60. 0 48. 0	. 543	32.
Tri-State lead and zine		2	52.0	.706	28. 8 36. 7
fachinists helpers (surface and underground):		1		na final as	00.1
Western mixed ore	31	105	52.4	. 557	29.1
Michigan copper———————————————————————————————————		48	54. 0 58. 0	.377	20.3 24.4
Alabama iron		15	60.0	. 306	21.9
Southeastern Missouri lead		14	48.0	. 569	27.3
lotormen (underground):	09	000	72.0	200	
Western mixed ore	33	380	53. 8 48. 0	.609	32.7
Northern iron		230	47.3	. 558	26.3
Alabama iron	2	11	60.0	. 444	26.
Southeastern Missouri lead.	4	57	48.0	. 576	27.6
Tri-State lead and zinc	. 2	4	48.0	. 556	26. 6
Western mixed ore	41	2, 137	53. 0	. 508	30.1
Michigan copper	6	319	48. 0	. 501	24.0
Northern iron	5 4	49	47. 3 60. 0	. 531	25. 1 25. 7
Alabama iron Southeastern Missouri lead.	4	737 430	48.0	. 596	28.6
Tri-State lead and zine	22	438	48.0	.699	33. 5
ippers (underground):	0.6	100	50.0	1001	91.0
Western mixed ore Michigan copper	36	172 85	53. 2 48. 0	. 584	31. 0 16. 4
Northern iron		4	47. 0	. 569	26.7
Alabama iron	: (bun1)	19	60, 0	. 380	22.8
Southeastern Missouri lead	1	1 7	48. 0	. 631	30. 2 21. 8
Tri-State lead and zinc	3	7	48.0	. 455	21.0
Western mixed ore	21	61	53.7	. 562	30.1
Michigan copper	5	65	54. 5	. 333	18, 1
Northern iron	11 2	17	57. 4 60. 0	.492	28, 2 15, 0
Alabama iron Tri-State lead and zine	2	2	59, 0	. 403	23.7
			L. onk	ens Fuent side	77
Western mixed ore	13	99	53. 1	. 556	29, 5
Michigan copper	2 9	34	48, 0 52, 8	.412	19.7 25.0
Northern iron		0.1	04.0	milder and	20.0
Western mixed ore	39	146	53. 3	. 635	33.8
witchigan topper	6	36	48, 5 51, 0	. 481	23. 3 26. 7
Northern iron Alabama iron	34	110 17	60.0	. 524	22.9
Southeastern Missouri lead	2	13	48.0	. 570	27.3
Tri-State lead and sinc.	4	6	48.0	. 465	22.3
wdermen (underground): Western mixed ore	25	80	53, 2	. 596	31.7
Michigan copper	1	80	48.0	.463	22.2
Northern iron	16	25	47.4	. 553	26, 2
Alabama iron	2	6	60.0	.376	22.5
Southeastern Missouri lead	3	3	48.0	. 569	27.3
Western mixed ore	23	102	55.6	. 655	36.4
Michigan copper	6	67	54.9	.429	23.5
Northern iron	32	126	56.3	. 498	28.0
Alabama iron	4	20 15	65. 6	. 384	25.1 29.0
Southeastern Missouri lead	9 70 00 4	10	69.6	. 439	30.5

# AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924—Contd. \*\*Underground mines\*\*—Continued\*\*

Occupation and district	Num- ber of estab- lish- ments	Num- ber of em- ployees	Average full-time hours per week	Average earnings per hour	Average full-time earnings per week
Roof trimmers (underground):				orthog and	
Michigan copper	3 2	63	48.0	\$0.482	\$23. 14
Alabama iron Southeastern Missouri lead	4	74	60.0 48.0	.556	33.36 27.60
Tri-State lead and zinc	17	32	48.0	.509	24. 43
Skippers (underground): Western mixed ore	23	82	54.0	.637	34, 40
Michigan copper	1	9	48.0	. 459	22.03
Northern iron		127	47.7	. 550	26. 24
Alabama iron	1	. 11	66.0	. 425	28.05
Western mixed ore	6	66	54.5	. 663	36. 13
Michigan copper		70	48.0	.495	23.76
Northern fron	7	12	46. 5 60. 0	. 538	25.02 25.50
mimber framers (surface)			00.0	DHAD REST	200
Western mixed ore	29	63	52.3	. 641	33. 52
Northern iron Timbermen (underground):		75	58.3	.448	26. 12
Western mixed ore		1, 279	53.7	. 658	35. 33
Michigan copper		410	48.0	. 464	22. 27
Northern iron		332 12	47. 3 60. 0	.578	27. 34 25. 26
Southeastern Missouri lead	1	3	48.0	.756	36. 29
Tri-State lead and zincTimbermen's helpers (underground):	5	19	48.0	. 500	24.00
Western mixed ore	25	429	54.6	. 605	33, 03
Michigan copper	3	42	48.0	.406	19.49
Northern iron	11 3	169	46.8	.530	24.80 21.90
Tri-State lead and zinc	2	68	48.0	. 437	20.98
Tool drassers (surface):				(wasmin)	1767 W
Western mixed ore Michigan copper	34	62	53. 4 54. 0	. 694	37.06 21.65
Northern iron		13	54.5	.515	28. 07
Alabama iron	1	2	60.0	. 620	37.20
Topmen (surface): Western mixed ore	43	520	52.5	.517	27.14
Michigan copper	6	181	54. 2	. 343	18. 59
Northern iron	84	767	57.6	. 418	24.08
Alabama iron Southeastern Missouri lead	4	159	60. 3 48. 0	. 282	17.00 22.40
Tri-State lead and zinc	22	106	48.1	. 421	20, 25
Trackmen (underground): Western mixed ore	32	162	52.0	. 596	30, 99
Michigan copper	6	144	48.0	. 460	22.08
Northern iron	21	71	47.2	. 556	26. 24
Alabama iron Southeastern Missouri lead	4	31 219	60.0 48.0	. 448	26. 88 27. 31
Tri-State lead and zinc	19	40	48.0	.517	24.82
Trackmen's helpers (underground): Western mixed ore-				n hearly and	000000
Michigan copper	11 2	52	54. 2 48. 0	.551	29.86 19.82
Northern iron	4	18	47.1	. 515	24. 26
Alabama iron	3	126	60.0	. 351	21.06
Tri-State lead and zinc		27	48.0	. 437	20.98
Western mixed ore	38	1, 152	53. 2	. 557	29.6
Michigan copper Northern iron	29	367 385	48.0	.551	26. 48 26. 66
Alabama fron	1	3	60.0	.370	22. 20
Alabama fron Southeastern Missouri lead	1	7	48.0	.569	27.31
Tri-State lead and zinc		114	48.0	. 438	21.05
Western mixed ore	21	126	53. 2	.542	28.83
Michigan copper	3	36	48.0	. 467	22.45
Northern iron	23	138	47. 2 60. 0	.552	26. 00 20. 70
Alabama iron Southeastern Missouri lead	3	43	48.0	. 569	27.3
Tri-State lead and zine	2	4	48.0	. 469	22. 51
Truck operators (surface): Western mixed ore	19	27	53.4	. 610	32.57
Michigan copper	4	12	54.0	. 383	20.6
Northern iron	15	32	56.6	. 485 . 456	27. 4

## AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924—Contd. Underground mines-Continued

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Occupation and district	Num- ber of estab- lish- ments	ber of	hours per	Average earnings per hour	
Watchmen (surface):	20	104	E7 7	40 500	200
Western mixed ore	36 6		57.7 66.3	\$0.526	\$30, 35
Northern iron	28	50	76.8	. 380	23. 34 29. 18
Alabama iron	2	8	79.3	. 291	23. 08
Tri-State lead and zinc	2	2	56.0	. 366	20.50
Other employees (surface and underground): Western mixed ore	46	827	54.4	. 673	20 01
witchigan copper		1	50.1	. 673	36. 61 24. 90
Northern iron	35	563	53.0	. 584	30.95
Alabama iron	4	116	61.3	. 420	25.75
Southeastern Missouri lead	22	81	49. 9	. 592	29, 54
Tri-State lead and zinc		110	49.0	. 554	27.15
Open-pit m	ines				
Western mixed ore	3	79	56.0	\$0.668	\$37.41
Minnesota iron	10	57	60.0	. 567	34.02
Alabama iron	4	4	60.0	. 401	24.06
Western mixed ore	3	82	56.0	. 523	29. 29
Minnesota iron	7	40	60.0	.458	27.48
Alabama iron	2		60.0	. 285	17.10
Carpenters: Western mixed ore			***	E087.20	
	3 7	26	56.0	684	38.30
Minnesota iron	4	49	60.0	.530	31.80 18.90
Carpenters' helpers:		11000	2012		AC: OU
Western mixed ore	3	35	56.0	. 526	29.46
Minnesota iron	6	20	60.0	.437	26.22
Alabama iron	3	8	60.0	.310	18.60
Drilling machine operators: Western mixed ore	3	110	56.9	.614	34.94
Minnesota iron	12		60.0	.614	28.74
Alabama iron		2	60.0	.460	27.60
Drillers' helpers		10	10000	0.000	
Western mixed ore	3	99	57.1	.545	31.12
Minnesota iron	7	45	60.0	.438	26.28
Alabama iron	2	2	60.0	. 281	16.81
Dumpmen: Western mixed ore	2	85	56.0	.339	18.98
Minnesota iron	9	106	60.0	.422	25.32
Alabama iron.	1	1	60.0	. 280	16.80
The state of the s		170		000	20.00
Western mixed ore	3	179	56.0	.369	20.66 25.74
Minnesota iron	10	96	60.0	.429	25. 74 14. 70
Tocomotive engineers		0.	00.0	navigori.	A70 10
Western mixed ore	3	139	56.0	. 685	38.36
Minnesota iron	13	162	60.0	. 696	41.76
Alabama iron	4	18	60.0	.414	24.84
Locomotive firemen:	2	175	*0.0	531	29.74
Western mixed ore	3	175 213	56.0 60.8	.531	29.74 31.86
Alabama iron	4	18	60.8	. 260	15.60
		1	and the same	Acceptor	
Western mixed ore	3	109	56.0	. 660	36.96
Minnesota Iron	10		60.0	. 536	32.16
Alabama iron	4	4	. 60.0	.399	23,94
Machinists' helpers: Western mixed ore	3	184	57.1	. 515	29, 41
Minnesota iron	3		60.0	455	27. 30
Alabama iron	3	7	60.0	.337	20. 22
AND A SECOND CONTRACTOR OF THE PROPERTY OF THE	1		0.033 5	THE PERSON NAMED IN	
Western mixed ore	3		56.0	.386	21.62
Minnesota iron	13		60.0	. 469	28. 14 15. 18
Alabama iron	4	26	60.0	. 253	10, 10
Shot firers: Western mixed ore	2	28	59.5	. 458	27.25
Minnesota iron	10	26	60.0	. 494	29.64
Shovel engineers: Western mixed ore	100000		viewes in		PO 48
Western mixed ore	3		56.0	.901	50.46
Minnesota iron	13		60.0	. 997	59. 82 32. 76
Alabama iron	4	13	60.0	. 546	
Shovel firemen: Western mixed ore	3	104	56.0	. 526	29.46
Minnesota iron	13	112	64.1	. 514	32.95
Alabama iron		1 15		. 275	16,50

AVERAGE FULL-TIME HOURS, EARNINGS PER HOUR, AND FULL-TIME EARNINGS PER WEEK, IN METALLIFEROUS MINING IN THE UNITED STATES IN 1924—Contd.

#### Open-pit mines-Continued

Occupation and district	Num- ber of estab- lish- ments	Num- ber of em- ployees	Average full-time hours per week	Average earnings per hour	A verage full-time earnings per week
Shovel cranemen:	3877	S TO	COY COURT	ATT VED	987-710
Western mixed ore	3	76	56. 0	\$0,673	\$37.66
Minnesota iron	13	64	60. 0	. 701	42.0
Alabama iron	4	10	60. 0	. 390	23, 40
Switchmen:	(12) (X)	-	00.0		20. 2
Western mixed ore	3	128	56, 0	.471	26, 38
Minnesota iron	10	81	60. 0	. 424	25, 44
Alabama iron	2	" 7	60.0	. 255	15. 3
Trackmen:					
Western mixed ore	3	891	56.0	. 376	21.0
Minnesota iron	13	759	60. 0	. 419	25, 14
Alabama iron	4	36	60.0	. 250	15.0
Trip riders:				17.00	
Western mixed ore	2	153	56. 0	. 544	30. 4
Minnesota iron	13	179	60.0	. 481	28. 8
Watchmen:	Towns.	In Theman	and the real parties of	1000	10000
Western mixed ore	3	104	58.6	.471	27.6
Minnesota iron	10	34	76.8	. 449	34. 4
Alabama iron	4	10	72.8	. 249	18. 1
Other employees:					E 10 4 Pe 17 7 7
Western mixed ore	3	352	57. 2	. 536	30. 6
Minnesota iron	13	355	60.4	. 535	32.3
Alabama iron	4	69	60.0	. 293	17. 5

#### Wages of Seamen, January 1, 1924

THE following table taken from a recent report of the United States Bureau of Navigation shows the average monthly wages of American and foreign seamen as of January 1, 1924:

AVERAGE MONTHLY WAGES OF AMERICAN AND FOREIGN SEAMEN ON STEAM AND MOTOR CARGO VESSELS OF 5,000 GROSS TONS AND OVER, JANUARY 1, 1924

and the second second			Average	monthly	wages of se	amen or	1-	
Position	American vessels		12 Tileman		el tratages	with the	or fit his years and which years	BALLEY .
Toblion	Privately owned ships	U.S. Ship- ping Board	British vessels	Danish vessels	Dutch vessels	French	Norwegian vessels	Spanish vessels
Deck department:	2 -12	EV BLOO	( Palys	17/15 pn 16	er is a secure	1	Wa Stranger	N 822 B
First mate	\$182	\$192	\$92-\$122	\$151	\$104-\$110	\$74	\$110-\$120	\$68-\$135
Second mate	159	168	71- 83	118	78- 84	71	92- 99	48- 97
Third mate	141	153	56- 61	66	50- 54		66- 71	37- 58
Fourth mate	122	145	51					
Boatswain.	74	75	51	52	46		52	29- 39
Carpenter	78	80	56- 75	52	46	71	52	
Seaman, able-bodied	60	63	44	46	40	64	46	24- 29
Seaman, ordinary	45	48	23- 30	23	20	57	25	19- 23
Engineer department:	0	12.30			A PART NAME	M17115 %	CON DRA LES	WAY A
Chief engineer	285	272	112- 161	182	140- 150	386		125- 154
Second engineer	184	192	92- 122	131	96- 102	241		68- 97
Third engineer	160	168	71- 83	96	68- 72	178		48- 68
Fourth engineer	142	153	56- 61	76	46- 50	158		
Fireman	63	65	46- 51	47	42	74	47	25- 29
Greaser	70	73	49- 51	52	46	74		
Water tender	69	73	49	52		74		29- 39
Coal passer or wiper	54	58	26- 44	32	34	64	27	23- 27
Steward department:	E	OF SECURITION	William Salar	CHA TOWN		975Fs; 214.00	Contract of the second	2000
Chief steward	127	129	66- 75	90	30	106		29- 39
Second steward	108	113	40- 56			87		
Cook.	108	111	61- 71	66	58	116		30
Second cook	84	90	41- 46	32		97		
Mess steward	48	47	39- 40			77		14
Mess boy	42	43		12	12			10

<sup>&</sup>lt;sup>e</sup> All wages, except American, are taken from consular reports. The wages on foreign vessels are stated in the United States equivalent of the foreign value taken at the normal rate. The two columns under some of the foreign flags represent the highest and lowest wages paid based upon size of vessel, length of service, and other conditions. Reports for Italian vessels have not been received.

<sup>1</sup>United States. Department of Commerce. Bureau of Navigation. Merchant marine statistics, 1924. Washington, 1925. iv, 73 pp.

Average Weekly Earnings of Factory Employees in New York in February, 1925

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THE following table, furnished by the Bureau of Statistics and Information of the New York State Department of Labor and based on reports from 1,648 factories employing more than half a million persons, shows the average weekly earnings of shop and all factory employees in New York City and in the entire State in February, 1925:

AVERAGE WEEKLY EARNINGS OF FACTORY EMPLOYEES IN NEW YORK IN FEBRUARY, 1925, BY INDUSTRY

00 US 0 U 000 U 0 00 U 0 U	All factory	y employees	Shop emplo Sta	yees, whole
Industry	Whole State	New York City	Men	Women
Stone, clay and glass products:	- 1-51 2 - 1		L DUS( 413	
Miscellaneous stone and mineral products Lime, cement and plaster	\$32. 07 29. 83	\$46, 11 32, 56	\$37. 93 29. 57	914.0
Brick, the and pottery	24. 69	27.55	26.03	\$14.0 14.8
Glass	27. 68	30. 82	30. 30	. 14.0
Total	28. 52	34. 86	30. 47	14. 2
Metals, machinery and conveyances:				
Gold, silver and precious stones	30. 20	32. 81	33. 09	19.1
Brass, copper, aluminum, etc.	27, 30	25. 97	28. 33	14.5
Pig iron and rolling mill products Structural and architectural iron work	33. 50	05.07	34. 03	20. 3
Sheet-metal work and hardware	31. 62 28. 30	35, 07 25, 92	29. 42	(1)
Firearms took and cutlery	28, 30 25, 83	(1)	30. 96 26. 80	16.1
Firearms, tools and cutlery Cooking, heating and ventilating apparatus	25, 83 34, 12	30, 89	34. 19	(1)
Machinery (including electrical apparatus)	30.06	27. 28	30. 52	18.9
Automobiles corrieges and airplance	39 03	33. 22	31. 83	18.4
Cars, locomotives and railroad repair shops	32.48	32.10	32.44	22.
Boat and ship building Instruments and appliances	28. 46	27. 91	27. 99	**********
		23. 91	28. 14	16.
Total	30. 18	27. 46	31. 15	17.4
Wood manufactures: Sawmill and planing-mill products	27, 60	29, 44	27. 36	19
Furniture and cabinetwork	28, 11	31. 65	27. 36 28. 72	13.7 14.6
Pianos, organs, and other musical instruments	29, 28	30. 62	30. 87	16, 6
Miscellaneous wood and allied products.		23. 02	26. 70	14.
Total		28. 18	28. 84	15.4
Furs, leather and rubber goods:	200			
Leather	24. 35		25. 46	14.
Furs and fur goods	32.68	32. 68	33. 23	20.
Boots and shoes	25. 93 25. 64	27. 46	27.66	16.9
Miscellaneous leather and canvas goods	25. 64 24. 66	29. 64	28, 99 25, 32	14.
Pearl, horn, bone, celluloid, hair, etc.	23. 27	24. 29	25, 32	10.
Total.	25. 72	27. 50	27.06	16.3
Chemicals, oils, paints, etc.:	1100			
Drugs and chemicals	28. 50	22.38	30. 91	15.
Paints, dyes and colors	27. 33	27. 94	27. 82	15.
Animal and mineral oil products		28. 98	80. 31	15.
Miscellaneous chemical products	29. 95	27. 75	33. 81	19.
Total	28. 51	27. 26	31. 39	17.
Paper	28. 25	(1)	27. 85	14.
Printing and paper goods:	1877	0.00		
Paper boxes and tubes	24. 33	25. 80	27. 45	16.
Miscellaneous paper goods	26, 23	27. 60	28. 68	16.
Printing and bookmaking	36. 15	38. 35	40. 42	19.
Total	33. 36	35. 59	38. 61	18.
Textiles: Silk and silk goods	20 41	99 49	07 60	15.
	20, 41 25, 67	22. 43	27. 60 29. 10	15. 16.
Cotton goods	19. 89	(1)	29. 10	16.
Cotton and woolen hosiery and knit goods	19. 89	(1)	26, 69	16.
Other textiles and allied products	23, 25	24. 26	26. 42	16.
	The same of the same of the same of			
Total	22, 25	23. 67	26. 85	16.

Average weekly earnings not computed because number of employees is too small.

# AVERAGE WEEKLY EARNINGS OF FACTORY EMPLOYEES IN NEW YORK IN FEBRUARY, 1925, BY INDUSTRY—Continued

d in Statistiske Efterratninger	All factory employees		Shop emplo	
Industry	Whole State	New York City	Men	Women
othing, millinery, laundering, etc.:  Men's clothing.  Men's shirts and furnishings  Women's clothing  Women's underwear and furnishings  Women's headwear  Miscellaneous sewing  Laundering, cleaning, dyeing, etc	22, 12 29, 83 19, 34	\$32, 99 26, 15 36, 99 22, 85 29, 83 19, 50 20, 51	\$33, 66 28, 69 49, 67 31, 04 35, 98 28, 14 28, 72	\$16. 76 14. 97 24. 84 19. 63 22. 82 15. 63 15. 22
Total	26. 16	30. 21	35. 05	18. 09
od, beverages and tobacco: Flour, feed and other cereal products Fruit and vegetable canning and preserving Groceries not elsewhere classified Meat and dairy products Bread and other bakery products Confectionery and ice cream Beverages Cigars and other tobacco products	24. 88 21. 18 33. 79	27. 83 23. 40 28. 36 32. 94 25. 00 21. 25 38. 06 18. 95	28. 59 28. 03 29. 96 29. 69 30. 90 24. 98 32. 52 24. 58	13. 95 12. 48 16. 03 16. 72 14. 54 13. 43 10. 79 17. 82
Total	24. 89	24. 62	29. 32	15. 67
ter, light and power	33. 93	33. 36	33. 92	(1)
Grand total	27. 97	28. 89	31.00	17. 19

Average weekly earnings not computed because number of employees is too small.

#### Wages in Various Occupations in North Carolina, 1924

THE weekly wages paid in various occupations in North Carolina in 1924 are shown in the following table, the data in which were taken from the thirty-fourth report of the Department of bor and Printing of North Carolina:

ERAGE WEEKLY WAGES IN SPECIFIED OCCUPATIONS IN NORTH CAROLINA, 1924

Occupation	Weekly wages	Occupation	Weekly wages
mechanics	\$30.00	Factory workers—Continued.	
rs		Furniture factory—females	1 \$2.31
ers	33, 00	Knitting mill—males	1 3.80
ksmiths	33, 00	Knitting mill-females	1 2.46
r makers	43.00	Tobacco factory—males	1 3, 19
makers' helpers	29, 00	Tobacco factory—females	1 2. 13
emen, freight	32.00	Farm help	
dayers	47.00	Firemen.	
enters	32,00	Freight	39, 00
enters, bridge		Passenger	50, 00
enters' helpers, bridge	20.00	Stationary	
epair men	37. 00	Switch	
lifeurs	22.00	Gardeners	15.00
rete workers		Janitors	
luctors:	10.00	Laborers.	
reight.	43.00	Laborers, bridge	
Passenger	45.00	Lumbermen	15.00
treet railway	30, 00	Machinists	35. 00
Yard	44.00	Machinists, first class	43. 00
s, family	7.00	Machinists, first class	40.00
ricians	45.00	Machinists, second class Machinists, helpers	29.00
neers:	30.00	Metal workers	30.00
Deers: Civil	50.00	Motormen	
reight	52, 00	Musicians	
1018 III KONDON STORES	50, 00		
assenger	40.00	Painters	1 00 00
tationary	40.00	Pipe fitters	-1 40.00
team shovel	44. 00	Plasterers	40.00
***************************************	The second secon		
ory workers: Otton mill—males	010 0 00	Plumbers	
otton mill-males	1 3. 60	Printers	
otton mill-females	1 2. 27	Waiters	10. 50
urniture factory—males	1 3. 90		

er day.

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3. 75 4. 67 3. 63 4. 78 5. 42

4. 53 0. 53 6. 90 4. 78 6. 49 5. 52 6. 30

5. 45 5. 35 5. 73 9. 30

17. 56 14. 87 16. 11 16. 00 19. 03 18. 03 15. 04 16. 57 14. 59 16. 46 16. 93 16. 11

# Wages in Various Industries in Denmark, 1924

THE following table, published in Statistiske Efterretninger No. in 1925, gives average hourly wages in various occupations in Denmark for the first and third quarters of 1924. The wages given are based on data supplied to the Statistical Department of Denmark by the Danish Employers' Association.

AVERAGE HOURLY WAGES IN VARIOUS OCCUPATIONS IN DENMARK, FIRST AND THIRD QUARTERS OF 1924

[Øre at par=0.268 cent; exchange rate varies]

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		Copenhage	Provincial towns			
Industry and occupation	Number	Wages	per hour	Number	Wages	per hou
	workers, Sept. 30, 1924	First quarter, 1924	Third quarter, 1924	workers, Sept. 30, 1924	First quarter, 1924	Thir quart
Food industry: Bakers	(0)	Ore	Ore		Ore	-
Bakers	924	176	180	98	154	
Millers	. 68	161	165	212	128	
Millers. Chocolate factory employees—	-			1	100	
Skilled	63	171	182	19	161	
Unskilled	85	135	135	9	137	
Women	636	84	87	82	70	
Margarine factory employees Unskilled	1		-		****	
Unskilled	65	125	131	292	120	
Women -	40	67	70	172	67	
Brewery workers— Unskilled			1	****	100	
Unskilled	1, 931	135	149	580	126	
Women	920	97	106	672	82	
Alcohol factory employees—	95	. 107	130	254	128	
Unskilled	35	127	102	12	95	
Women Sugar factory employees—	90	. 90	102	12	90	
Unskilled	408	155	155	1, 284	117	1
Women	199	81	81	62	66	
Miscellaneous—		01	01	DAN OF	00	
Unskilled	131	146	145	268	122	
Women		88	96	350	92	
Tobacco industry:				-	Charles .	
Cigar makers	858	147	159	891	144	1
Unskilled workers	119	148	159	150	129	
Women	2, 273	106	113	1, 492	89	
		All Control	- 13-11		E.C.	
Textile workers—		185 000000	-	1 000	37	
Textile industry: Textile workers— Men	655	133	140	1,810	127	
Women	1,752	96	103	2, 573	84	
Ropemakers—	nd was	00 100	1	1		
Skilled	8	121	126	27	123	
Unskilled	32	116	121	28	114	
Women -	122	74	78	63	64	
Trimming makers— Skilled	13:23 04	(0) 1544	100	5	175	
Skilled	24	154	160	4	88	
Women	17	84 215	210	19	139	1 3
SailmakersClothing industry:	Brothmi.	213	210	10	100	
Tailors	138	160	168	18	145	
Garment workers men	98	167	173	11	151	
Garment workers, men	979	86	88	434	70	
Cutters, clothing	.1 38	191	193	3	147	1
Other clothing workers, women	42	96	99	9	71	
Shoemakers	34	156	169	1	123	
Shoe factory workers—	010-20/80	1400,245		174-16	1	
Men	1,052	178	179	165	141	
Women-	809	102	104	78	74	
Metal trades:	The state of the s	AND SECTION	To The state of	1000		
Molders		209	207	595	176	
Tinsmiths	164	193	194	104	159	
Electricians	604	168	167	592	154	
Electroplaters	262	161	160	96	147	
Coppersmiths	71	210	213	50	188	1
Metal cutters	128 159	188 202	191 210	68 271	155 156	1

# AVERAGE HOURLY WAGES IN VARIOUS OCCUPATIONS IN DENMARK FIRST, AND THIRD QUARTERS OF 1924—Continued

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Third uarte, 1924

	(	Copenhage	n	Pro	vincial tov	vns
Industry and occupation	Number	Wages	per hour	Number	Wages 1	er hour
	workers, Sept. 30, 1924	First quarter, 1924	Third quarter, 1924	workers, Sept. 30, 1924	First quarter, 1924	Third quarter, 1924
Metal trades-Continued.		Ore	Ore	Day and A	Оте	Оте
Smiths and machinists	6, 365	189	190	5, 675	156	15
Metal pressers	133	206 174	210 173	16 50	183	17
Miscellaneous, skilled workers	76	195	193	95	152 161	15 15
Common laborers	4,066	147	148	3, 959	130	13
Women	1,899	86	87	359	82	8
Paint mixers	33	157	166	8	153	15
Oil mill laborers	534	140	146	783	138	15
Sulphuric acid factory laborers	91	155	164	318	148	14
Match factory workers— Laborers, men	80	157	157	J. Deal		and a
Women	166	84	90			
Miscellaneous—		100		0.00	100	
Laborers, men	981 1,031	135 79	145 82	252 297	123 68	14
Pener and printing industry:	0.000	CHILD HAS	02	201	00	Man A
Paper factory workers— Laborers, men				Buch	1 1 man	71 1/ 22
Women	190 46	139	139	806 255	122 76	12
Book printing, etc.—	10	30	30	200	10	0
Book printing, etc.— Typographers	1, 526	203	205	914	190	19
Lithographers	138	193 176	197 185	75	163 165	17
Unskilled laborers, book printing	142	156	159	56	149	1
Women, book printing	316	100	102	91	84	
Unskilled lithographic workers Bookbinders—	27	144	152	5	130	14
Skilled	336	195	199	115	141	14
Women	425	103.	106	38	75	7
Paper goods— Unskilled workers		100	1110 00	118 211	CI WOR	MIGHT
Women.	58 250	129 85	134 88	10	121 75	
Box factories, women	264	91	97	107	81	8
rade and transport:		105	100	0.000	***	
Stock and warehouse laborersLongshoremen	1,027	125 210	133 229	2,087	116 206	12
Women	104	82	90	119	90	4850
eather tanners: Skilled	to bou	200	1 2 500	-	170	m) mile
Unskilled	157 238	203 165	216 187	78 204	172 150	18
Building trades:	200	100	201	204		
Plumbers	339	193	206	154	139	1
Building joiners		188	193	1, 200	140	la de la
Painters	1,342	190	200	463	134	the tri
Masons	1,301	237	269	1,972	149	1
Mason's helpers Stucco workers		177 206	208 205	1,978	119 153	1
Carpenters.	902	220	234	1,908	141	i
Carpenters' helpers	38	135	143	91	109	1
Linoleum layers	33	175	205		004	
Electric wiremen	48	203	236	14	234	30 1 45 1
ood and furniture industry:	111	181	193	311	161	1
Brush makers	43	162	174	19	135	111111
Carvers Turners	17	182	170 163	36	142	zoitz
Gilders	23	203	204	26	154	50001
Coach makers	29	195	206	4	147	1
Wicker workers Cabinetmakers	621	133 168	131	116	136 140	1 101
Machine carpenters	428	164	170	1, 200	133	MOLEK!
Woodworkers— Unskilled	el ciring	A CHESTION	The Later	Prophision	0,0% UNE	10/114
Unskilled	363 135	131 85	136 89	590	113 82	1701
Piano makers	240	185	199	10	144	1
lay, stone, and glass industry:	PAR ALTER	SIMILAR	Sa Att 30	168 S139	PROTEIN.	A Comi
Cement and concrete workers	1,883	176	192	2,529	115	1
Pavement layersStonecutters	112	233 193	292 210	326	125	France

AVERAGE HOURLY WAGES IN VARIOUS OCCUPATIONS IN DENMARK FIRST, AND THIRD QUARTERS OF 1924—Continued

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The war and the parties of	1	Copenhage	n	Provincial towns			
Industry and occupation	Number	Wages	per hour	Number	Wages 1	per hour	
bring and the second plants and the second parts of the second par	workers, Sept. 30, 1924	First quarter, 1924	Third quarter, 1924	of workers, Sept. 30, 1924	First quarter, 1924	Third quarter, 1924	
Clay, stone, and glass industry—Contd. Stonecutters' helpers. Gravel workers. Tile and brick makers. Cement factory workers.	57 3 89	Øre 153	<i>Ore</i> 152 150 156	159 255 3,786 1,640	Øre 116 109 115 131	Øre 15 15 15 15 15 15 15 15 15 15 15 15 15	
Ceramic workers— Skilled Unskilled Women Terrazzo workers Miscellaneous:	191 316 499 47	171 137 100 163	184 146 109 174	50 90 46 9	133 108 78 124	1	
Miscellaneous: Foremen Firemen Chaufieurs Teamsters	667 381 776 1,355	1 101. 89 1 72. 03 1 66. 55 1 63. 40	1 107. 68 1 73. 90 1 69. 80 1 66. 85	663 752 461 993	1 80, 09 1 66, 11 1 58, 53 1 56, 73	1 84. 1 68. 1 61. 1 58.	

<sup>1</sup> Kroner per week.

## Wages in France in October, 1924 1

STUDY of the average wages paid in France to certain classes of workers has been made every five years since 1896 by the General Statistical Bureau, the last one having been made Wage studies at five-year intervals were considered fairly satisfactory before the war when the movement of wages was relatively slow, but at the present time, when considerable changes in wage rates are of frequent occurrence, it has been found necessary to make these studies oftener. The international conference of statisticians held at Geneva in October, 1923, decided that it was advisable that statistics of wages should be compiled in the different countries as frequently as possible and at the least once a year. Minister of Labor of France therefore decided to make such a study annually, and requested the officers of trade councils and mayors who have cooperated in securing the information in the past to collect statistics similar to the previous studies, for their districts for October, The questionnaire covered the same classes of workers as in the former studies so that the figures for different periods are comparable.

Attention is called in the report to the fact that frequently a great variation is found in wages paid to workers in the same occupation and the same locality. As it was impossible to secure detailed information as to these variations, those compiling the information were asked to furnish an estimate of the average wages paid. While such estimates are not entirely exact, they have the advantage of having been secured under the same conditions as formerly and thus furnish uniform elements of comparison as well as a general idea of the movement of wages in France. The daily and hourly wages of males in 38 occupations and of females in 7 occupations are shown for all

France. Bureau de la Statistique Générale de la France. Bulletin, January, 1925, pp. 168-192.
 See Monthly Labor Review, December, 1921, pp. 92-98.

cities except Paris grouped together and for Paris and its environs. The averages thus established have been used to calculate the index numbers of hourly and daily wages in 1921 and 1924, 1911 being

taken as the base.

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For the group of cities other than Paris the average daily wages of the majority of male workers in October, 1924, ranged from 19 to 24 francs; weavers, however, received only 17.44 francs, and laborers, 16.42 francs. The daily wages of women averaged from 10 to 12 francs. In Paris the average daily wages of men were approximately 30 francs. Compared with 1911 the average hourly wages of men in cities other than Paris had increased 470 per cent and the daily

wages 377 per cent.

The increases in wages amounted to more than 500 per cent for brick makers, quarrymen, weavers, rope makers and laborersoccupations in which the wages were relatively low before the warwhile the smallest increases, those for metal turners, coppersmiths, wood turners, and printers, were in the neighborhood of 450 per cent. The hourly wages of women increased 500 per cent and the daily wages approximately 400 per cent. There were decided increases in the wages in all occupations in October, 1924, as compared with February, 1921, the increase amounting to an average of 16 per cent in all male occupations in the cities outside of Paris, and 20 per cent in women's occupations. It should be borne in mind, however, that the franc has depreciated greatly in value during this period and that the percentage increase in wages in 1924 over those paid in 1911 does not indicate necessarily an increase in the buying power of wages. The exchange rate of the French franc in United States currency in 1911 was approximately par, but in February, 1921, it had dropped to 7.17 cents and in October, 1924, it was only 5.23 cents.

The following table gives the daily and hourly wages in different occupations in 1911, 1921, and 1924 in Paris and in other cities and

the index numbers for 1924, 1911 being taken as 100:

DAILY AND HOURLY WAGES IN FRENCH CITIES IN 1911, 1921 AND 1924, BY OCCUPATION

Paris
[Franc at par=19.3 cents; exchange rate varies]

100	21.87	00.2 00 00 E 00	200 200 MM 138 MM 218	Average wages						
200	Occupation		19	11	Februa	ry, 1921	Octob	er, 1924	for 1 (1911:	
京芸芸芸	100 At	15 2 00 10 2 00 10 2 00 10 2 40	Hourly rate	Daily rate	Hourly rate	Daily rate	Hourly rate	Daily rate	Hourly rate	Daily rate
Tanner Tailors Wood t	S	10 £ 10 £ 10 £ 10 £ 10 £ 10 £ 10 £ 10 £	Francs 0.80 .60 .65 .75 .75 .90 1.00 .80 .95	Francs 7, 20 6, 00 6, 50 7, 50 7, 50 9, 00 9, 00 8, 00 8, 00	France 3. 45 3. 20 3. 15 3. 50 4. 00 3. 50 3. 50 3. 75 3. 50	Francs 27. 60 25. 60 25. 20 28. 00 28. 00 28. 00 28. 00 30. 00 28. 00	France 4. 15 3. 70 3. 50 4. 00 4. 00 4. 00 3. 75 3. 75 3. 75 3. 75	Francs 33. 20 29. 60 28. 00 32. 00 32. 00 32. 00 30. 00 30. 00 30. 00 30. 00	519 617 538 533 533 444 375 469 395	461 493 431 427 427 356 333 375 375

# DAILY AND HOURLY WAGES IN FRENCH CITIES IN 1911, 1921, AND 1924, BY OCCUPATION—Continued

#### Paris—Continued

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by eagaw years of the wages of	di ing		Index n	umber				
Occupation	19	11	Februa	ry, 1921	Octobe	er, 1924	for 1	
ried and most begins of ried and sound with the con-	Hourly rate	Daily rate	Hourly rate	Daily rate	Hourly rate	Daily	Hourly rate	Daily rate
Males—Continued Blacksmiths Locksmiths Metal turners Vatchmakers Quarrymen tionecutters Masons Vavvies Cilers House painters Ornamental carvers	Francs 1.00 .90 .825 .70 .70 1.00 .95 .80 .95 .85 1.20	Francs 10.00 8.00 8.25 7.00 7.00 9.00 8.55 7.60 8.00 7.25 10.80	Francs 4.00 3.25 3.50 3.50 3.25 3.50 3.25 3.50 4.00	Francs 32.00 26.00 28.00 28.00 26.00 28.00 28.00 32.00	Francs 4. 50 3. 75 3. 75 3. 85 3. 50 4. 00 4. 00 3. 50 3. 75 3. 75 5. 00	Francs 36.00 30.00 30.00 30.80 28.00 32.00 32.00 30.00 30.00 40.00	450 417 455 550 500 400 421 437 395 441 417	36 37 36 44 40 35 37 36 37
Brickmakers	. 50	7. 65	3. 25 3. 50	26. 00 28. 00	3.00	24. 00 31. 20	433	

#### Cities other than Paris

Males	France	Francs	Francs	France	Francs	Francs		
Brewers	0.40	4. 21	2.08	17.06	2, 24	19, 58	560	465
Printers—compositors	. 50	4.94	2.31	18, 54	2.75	22, 40	550	453
Bookbinders	. 43	4. 67	2. 25	17. 86	2.63	21, 58	612	462
Tanners	. 40	4.09	2. 10	17. 02	2. 29	19. 03	572	465
Saddlers—harness makers	.42	4. 26	2.07	16, 83	2, 41	20.40	574	479
Shoemakers	. 38	3, 95	1. 98	16, 30	2, 23	19.06	587	482
Tailors	. 44	4. 55	2, 20	18, 02	2, 63	22.42	598	493
Dyers—scourers	.42	4. 13	2.09	16, 80	2.34	19, 62	557	475
Weavers.		3, 32	1.85	14. 33	2.11	17.44	603	525
Rope makers		3. 64	1. 95	15, 84	2.19	18. 32	576	503
Wheelwrights	. 43	4.44	2. 28	18. 77	2. 56	21. 86	596	492
Wood turners		4. 88	2, 46	19, 80	2.66	22. 18	532	454
Coopers		4.48	2.36	19. 47	2. 62	22, 11	595	493
Cabinetmakers	.49	4.86	2, 46	20, 36	2. 83	23, 65	577	487
Upholsterers		5, 06	2, 41	20. 02	2.85	23, 46	559	464
Pit sawyers	.45	4. 57	2.34	19. 56	2. 51	21. 02	558	460
Carpenters	.51	5. 05	2.44	20, 24	2.82	23, 92	553	474
Joiners		4, 70	2. 34	19. 45	2. 71	22, 86	577	
								486
Coppersmiths	. 53	5. 40	2. 61 2. 37	21. 33	2. 80 2. 68	23. 32	528	432
Tinsmiths		4.74		19. 26		22. 44	570	473
Plumbers		4. 92	2.36	19. 36	2.75	23. 10	561	469
Blacksmiths		5. 12	2.50	20. 53	2.80	23. 58	560	460
Farriers		4.40	2. 29	19. 07	2. 57	21. 92	584	498
Stove makers	. 50	5. 04	2.42	19. 50	2.64	22. 14	528	439
Locksmiths		4.65	2.31	19. 18	2. 68	22. 62	582	486
Metal turners		5. 39	2.57	20. 67	2.84	23. 63	536	438
Watchmakers		5. 31	2. 54	20, 70	3.00	24. 83	545	468
Quarrymen	. 42	4. 16	2. 24	18. 58	2.60	21.87	619	526
Stonecutters	. 52	5. 11	2. 50	21.00	2.96	24. 94	569	488
Masons	. 49	4.80	2.39	19. 72	2.80	23. 74	571	494
Navvies	. 39	3.82	2,05	17. 22	2.31	19. 66	592	515
Tilers	. 52	5, 05	2.45	20. 14	2.82	23, 92	542	474
House painters	. 49	4.76	2, 35	19, 43	2, 73	22, 86	557	480
Ornamental carvers	. 65	6, 39	3, 17	25, 41	3, 60	29, 53	554	462
Brick makers	.41	4.17	2, 35	19, 95	2, 57	22, 18	627	532
Potters		4, 26	2.17	18, 33	2.40	20, 00	571	469
Glaziers		4. 72	2.37	19, 52	2.64	22, 20	539	470
Laborers	. 33	3. 26	1. 67	14, 01	1. 94	16.42	588	504
Manufels	. 00	3. 20	1.07	14. 01	1. 31	10, 12	900	004
Average, all male employees	. 46	4.61	2.31	18. 92	2, 62	22, 00	570	477
Average, an maie employees	. 30	2. 01	2. 01	10. 02	2. 02	22.00	010	***
Females	200, 11, 000	0 1100	20 109		100			
Ironers	. 22	2.15	1.07	8, 73	1.45	11, 78	659	548
Dressmakers		2. 13	1.17	9. 43		11. 10	583	487
					1.34			501
Seamstresses	.21	2,08	1.11	8. 96	1. 27	10.42	605 576	484
Waistcoat makers	. 23	2. 50	1. 22	10.04	1.44	12, 10		521
Lace makers	. 22	2. 13	1.30	10.49	1.34	11. 10	609	481
Embroiderers		2. 44	1.18	9. 16	1.43	11.73	572	457
Milliners	. 25	2.48	1.17	9. 24	1. 37	11. 33	548	401
America all female emplemen	00	0.00	1 17	0.44	¥ 00	11 20	000	496
Average, all female employees	. 23	2, 29	1.17	9, 44	1.38	11. 36	600	750

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ally

In addition to the above study the actual wages paid in various occupations which were represented in a locality by a sufficiently large number of workers were secured and are shown in the following table. Where it was possible to secure this information the wages paid in 1911 are also given.

#### DAILY WAGES PAID IN DIFFERENT LOCALITIES IN OCTOBER, 1924 AND 1911, BY INDUSTRY AND OCCUPATION

[Franc at par=19.3 cents; exchange rate varies]

- LECTION CLASS CONTROL WITH CONTROL OF CONT	104	Daily wages		
Industry and occupation	Locality	1911	Octobe 1924	
lood:			France	
Mustard makers	Dijon	4.00	16.	
Vermicelli makers, male	Valencedo	4.00	14.	
Vermicelli makers, female	d0		8.	
Cracker makers, male	Calais Bédarieux	4.00	16.	
Cracker makers, female.	Badarleux	1.00	13.	
Chocolate factory workers, male	Tinchebraydo	0. 20	18.	
Fish salters	Fécamp.		16.	
Oil makers			19.	
hamicals.	1887	Dita dissolute	bas 10	
Match makers, male	Aix	in consolion	24.	
Match makers, famale	do		20.	
ubber and naner products:				
Match makers, female ubber and paper products: Rubber workers	Clermont-Ferrand	4.00	23.	
	Romuly		22.	
Paper and cardboard makers, male	Angoulème do	3. 25	13.	
Paper makers, female	do	3. 25	13.	
Cardboard makers, female	do		11.	
Cigarette-paper makers, female	Perpignan. Châlons-sur-Marne	1.75	9.	
Wall-paper makers	Châlons-sur-Marne	5, 00	20.	
rinting:		160	1114	
rinting: Transfer makers	Remirement		28.	
Stone englavers	dodo		28.	
extiles:	Armentières	0 **		
Spinners, linen	Armentieresdo		15. 17.	
			17.	
Spinners, cotton, male	Pringl	4, 25	17.	
Mary Mary 18 Committee of the Committee	Epinal Fraize	3, 60	17.	
The second secon	Condé-sur-Noireau	3. 10	15.	
Spinners, cotton, female	Epinal.	0.10	14.	
Spinners, cotton, remaie	St -Dia	STATISTICS OF THE	12.	
Taggleday T	Condé-sur-Noireau	3, 60	11.	
Spinners, male (not specified)	Haubourdin	12 12 12 12 12 12 12 12 12 12 12 12 12 1	28.	
Piecers and doffers.	Fourmies	3, 50	25.	
(2) 100 harmon and the contraction	Tourcoing	6. 50	26.	
Piecers and doffers	Haubourdin		22.	
M. Marian Marian Company Company Company	Fourmies		20.	
The state of the s	Tourcoing	4.00	22.	
Skin scourers	Mazamet		20.	
Unhairers, male	do	4.00	18.	
Unhairers, female	do		16.	
Silk spinners, male	Thizy.		14.	
Silk spinners, female	do	1 00	11.	
Silk spinners	Anduze StChamond	1.60	8.	
Silk workers, female	Montalieu-Vercieu		16.	
augustina Million and Augustina Augustina Million and Augustina Million and Augustina Million and Augustina August	Privas	1, 40	9	
	Perpignan	1. 40	9	
Artificial silk workers, male.	Beauvais		18	
Militariona workers, maje	Valence		20.	
Artificial silk workers, female	do		10.	
The state of the s	Elbeuf		12	
Weavers, male (not specified)	Amiens	3. 50	25.	
	Armentières	4.00	23.	
The state of the s	Haubourdin	4.90	28,	
The state of the s	Reims	3. 25	12	
The state of the s	Fraize	2. 20	16.	
A SOUTH PROPERTY AND A SOUTH AND A SOUTH AND A SOUTH AS	Mazamet	3.75	18	
Weavers, female	Bohain		18	
The state of the s	Privas	2. 40	10.	
The state of the s	Bédarieux	2.75	16.	
Dyers, cotton goods	Cholet Roanne	2. 00 3. 50	20	

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#### DAILY WAGES PAID IN DIFFERENT LOCALITIES IN OCTOBER, 1924 AND 1911, BY INDUSTRY AND OCCUPATION—Continued

congress third infragrantians that were con-	of workers were recu	Daily wages		
Industry and occupation	Locality	1911	Octo	
Textiles—Continued.	A TRANSPORTED AND AND AND AND AND AND AND AND AND AN	Francs	D-	
Warpers, male	Caudry		Fran	
Warpers, female		2, 50	1 1	
Ribbon card winders, female	do	2,00	1	
Winders, female	do	1.50	1	
reserved to the Dally wages	Caudry		1	
Committee of the commit	Tourcoing		1	
Tenterers, silk	Thizy			
The backdown magness	Voiron		. 2	
Embroidery weavers Bobbin-net makers	Tarare	9 95	2	
DODOIN-Bet Makers	StQuentin Caudry	0, 00	2	
Bleachers, cloth	Merville		3	
Finishers, male	Tarare	3,00	i	
	I foliante		i	
Finishers, female	Tarare		1	
Hides and skins:	A STATE OF THE PARTY OF THE PAR	Control of the	1	
Tawers, male	Chaumont	5. 00	1	
	Mazamet	4. 25	1 1	
Tawers, female	do			
o at the second	Graulhet		1	
Fur dyers	Grenoble	5,00	1 2	
Boots and shoes; gloves:	Taran		1 .	
Shoe workers, male	Lyon Toulouse		1	
	Cholet	*********	1 2	
Shoe workers, female	Boulogne		1	
The state of tellings of the state of the st	Toulouse		1	
William A. C. Control of the Control		Million Street	1	
Upper stitchers, female	Marseille	ALL LANGE	1	
		Managara Laborator	. 1	
Glove makers, male	Chaumont	6,00	1 2	
Will and Will and State of the	Grenoble	5,00	1 2	
	Millau	4. 25	1 2	
	Niort Chaumont	5. 00	1 2	
Glove makers, female	Chaumont	2.00		
Wood working:	Millau		. 1	
Wood working: Wooden-shoe makers	Roanne	3.75	1 5	
Clog makers	Merville	0.10	1 3	
	Anrillac	4.00	l i	
Musical-instrument makers	Mantes		1 4	
Miscellaneous:	THE RESERVE OF THE RE	123		
Bead makers	Saumur		. 5	
Comb makers, male	Oyonnax	5.00	3	
Calabana 100 A Language - Turado A - Turado	Tinchbray	3. 25	1	
Comb makers, female	do	2.00	1	
Button makers	Beauvais		. !	
Brush makers Knife handle finishers, horn	Thiers	5. 60		
Knife handle shapers	dodo.	4.00		
	the same of the sa		1	
Wooden-pipe makers	StClaude	K 10.00		
Metal works: Molders		10		
Molders	Maubeuge	8.00	1 8	
3.4. 9 micro	Fumay	6.75	1	
	Maria de la compania del la compania de la compania del la compania de la compania del la compania de la compania de la compania de la compania de la compan	********	- 3	
	Dōle			
30 Af At recovery 1	Bourges		-	
Electric welders	Le Havre			
Pattern makers	Maubeugedo			
Cutlers	Châtellerault	4 05		
Swagers	Thiers			
Metal stampers	do			
Knife filers	do	5.00		
Rough grinders	do	4.50	1 8	
Knife polishers	do	4.50		
Fitters (table knives)	do		-	
Fitters (pocket knives)	do	2. 50		
Precious stones: Gem cutters	the second secon			
	CA Clauda			
Diamond cutters	StClaude	10,00		
		10.00	1 '	
Marble workers	Cousoire	6, 50	1 . :	
ATAGE DID WULBUID	Guerét	0.00	1 3	

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#### DAILY WAGES PAID IN DIFFERENT LOCALITIES IN OCTOBER, 1924 AND 1911, BY INDUSTRY AND OCCUPATION—Continued

S

16, 00 13, 00 11, 00 10, 00 14, 00 16, 00 20, 00

27.00 28.00 27.50 32.00 25.00 13.60

12.00 18.00 18.50 10.00 12.00

16. 00 20. 50 -0. 80

0.00

1. 50 8. 00 8. 00 2. 00 2. 50 6. 50 7. 00

9.00

5. 75

5. 00 7. 50 0. 00

0, 26 0, 00 8, 00 8, 00 6, 80 0, 00 6, 00 4, 00 0, 00

2.50

0, 00 0, 25 2, 40 4, 75 5, 00 5, 00

2.00

. 00

.00

. 00

.00

terage daily and anunal wages of	of table shows the un	Daily wages		
Industry and occupation	Locality	1911	October, 1924	
Lime, pottery, glass: Cement workers	BoulogneRemirement	Francs	Francs 19.00 32.00	
Lime burners China painters Glass makers	Quimper Albi	8.00	21. 00 18. 00 18. 00 28. 00	
Glass-bottle workers	do	8. 00 8. 00	34. 00 30. 00 50. 00 48. 00	
Snappers Gatherers Drying-furnace tenders Transportation:	do		40. 00 18. 80 32. 80	
Dockers	Fécamp StMalo La Rochelle La Pallice		22. 50 22. 50 22. 00 23. 20	
· Control	Bayonne	8.00	21, 00 32, 00	

#### Wages and Cost of Living

A COMPARISON of wages and the cost of living as represented by the cost of board and lodging in the same localities in which data for wages were secured and the retail prices of 13 articles of prime necessity published every three months by the statistical bureau shows the following changes in cities having more than 10,000 inhabitants:

AVERAGE DAILY WAGES, COST OF BOARD AND LODGING, AND RETAIL PRICES OF 13 ARTICLES, AND INDEX NUMBERS THEREOF IN FRENCH CITIES IN 1911, 1921,

[Franc at par=19.3 cents; exchange rate varies]

Item	1911	Febru-	October, 1924	Index n (1911 =	
1 000 1 00 5 00 1 00 00 1 000		ary, 1921	19, 1921	1921	1924
Daily wages:  Men Women Cost of board and lodging per month Retail prices of 13 articles	Francs 4. 61 2. 29 70. 00	Francs 18. 92 9. 44 285. 00	Francs 22. 00 11. 36 338. 00	410 412 407 424	477 496 483 422

The index numbers show that the cost of board and lodging has increased since 1911 in approximately the same proportion as wages, while the cost of the 13 articles is considerably less. These two items are hardly comparable, however, as the cost of board and lodging of single workers may represent changes in the standard of living while the retail price index, relating as it does to articles of prime necessity alone, represents the influence of price changes upon the cost of a fixed standard of living.

#### Agricultural Wages

HE following table shows the average daily and annual wages of agricultural workers in the different Departments of France. These figures were collected by the prefects of the Departments in accordance with a provision of the law of December 15, 1922, on workmen's compensation in agriculture, which requires that these statistics shall be compiled each year.

AVERAGE WAGES 1 OF AGRICULTURAL WORKERS IN FRANCE, 1924

[Franc at par=19.3 cents; exchange rate varies]

NO DE PORTUGUES DE LA COMPANION DE LA COMPANIO	House		M	en	Farces -	1070000	5 5 19 8 7	Won	nen	
Department	1			Farm servants 3		Teamsters		Farm laborers		arm
0. C 10. C 1	Per	Per day	Per year	Per day	Per	Per day	Per year	Per day	Per year	Per
0)24 100 4 1	France	Francs	France	France	Francs	France	Francs	Francs	Francs	a Franc
Ain .	3,600	12.85	4, 000	13. 33	4,000	13. 33	2, 400	8. 57	2, 500	8.33
Alsne	4,700	15. 66	5, 100	15. 19	5, 200	16. 25	2,600	10. 40	2, 700	
Allier	3, 915	14. 50	3, 792	12.00	5, 400	18. 00	2, 400	10. 00	2, 844	9.00
Alpes (Basses-)	3, 430	14.00	3, 960	13.00	4, 685	16.00	2, 020	9.00	2, 210	
Alpes (Hautes-):		1	0,000	10.00	2,000	100	-,	0.00	2, 210	1.00
Embrun et Gap	3.000	15. 00	4,000	13.00	4, 500	15.00	1,800	10.00	2,400	8.00
Embrun et Gap. Briançon.	2 160	12.00	3, 100	10.00	1	AU. C.	1, 350	9.00	2, 250	
Ardèche	3 600	13. 85	3, 800	12. 66	4,000	13, 33	2, 500	9. 61	2, 200	fr 00
Ardennes	4 800	16.00	4, 800	16.00	6,000	18. 00	3,000	10.00	3,000	10.00
Ardennes Ariège	2 600	13.00	3,600	12.00	3, 600	12.00	1,750	7.00	1,800	
Aube:	0,000	10.00	0,000	24000	0,000	14.00	1,100	1.00	1,000	0.00
Champagne craveuse	4 600	16.70	4, 800	15. 45	5, 400	17. 40	3, 300	12.00	3,800	12.25
Champagne humide	1 4 200 1	15 95	4, 700	15. 15	5, 500	17. 75	3,000	10.90	3, 600	
Nogentais	4 800	17. 50	4, 700	15. 45	5, 800	19. 35	3, 500	12.75	3, 500	
Nogentais	4,500	16. 40	4, 500	15. 45	5, 800	18. 00	3, 500	11. 65		
Vignable	4 500	16. 40	4, 300	13. 85	5, 800	19. 33	3, 200	11. 65	3,500	
Vigitotie	1, 000	3 12.90							3, 300	
A VEVEOUS	ALCOHOLD VALUE	12.00	3, 950	11.00	4, 200	11. 65	4 1,500	4 6. 50	2, 220	6. 16
Aveyron:		100		19.78	1 000	15 00	200	SA EL	2 000	1
Vineiranche	4, 200	17.00	4,500	13. 75	4,900	15.00	2 000	10.50	3,800	
StAllrique	3, 890	16.00	4,800	14. 50	5, 100	15. 50	3,000	12.50	3,800	11.50
Millau	4,000	20.00	4,700	14. 25	5, 300	16.00	2, 400	12.00	3, 500	10.50
Espanon	3, 400	17. 00	5, 100	15. 50	5, 700	17. 25	2, 700	13. 50	3,800	
Kodez	4, 200	17. 50	5, 100	15. 50	5,800	17. 50	1,500	12. 50	3,900	
Bellort	3, 000	18.00	3, 635	11. 54	3, 635	11. 54	2, 200	11.00	2, 625	8.33
Bouches-du-Knone	4, 120	14. 85	3, 918	13. 28	4, 430	15. 12	2, 229	8. 65	2,790	
Calvados	4, 350	14. 50	4, 360	12. 45			3, 300	11.00	3, 825	
Villetranche StAffrique Millau Espalion Rodez Belfort Bouches-du-Rhône Calvados Cantal Charente Cher	4, 250	14. 15	5,000	16. 65	100		210		3,600	9. 85
Charente	3, 428	12. 15	3, 600	11. 60	4, 466	14.77	1,718	7. 15	1,466	4.73
~ ***************************	T. 4 (70)	11.00	4,600	12.60	5, 600	15. 34	1, 200	12.00	4, 360	
Corrèze. Côte-d'Or:	3,800	14. 00	3, 900	12.00			2,800	10. 30	2, 900	9.00
Cote-d'Or:									- 200	1 20
Chatillon-on-Seine	4, 590	17. 00	4, 500	15. 00	4,860	18.00	3, 120	12.00	3,000	
Dijon	4, 995	18. 50	4, 950	16. 50	5, 130	19.00	3, 645	13. 50	3, 450	
Beaune et Semur	5, 265	19. 50	5, 250	17. 50	5, 265	19. 50	4,770	14. 50	4,750	12.50
Côtes-du-Nord	3, 600	12.00	3, 700	11. 56	4,000	12. 50	2,900	9. 66	2, 900 3, 250	9.07
Creuse Dordogne	3, 500	15. 00	5, 000	17. 00	5,000	17. 00	2, 300	10.00	3, 250	10.00
Dordogne	3,000	10.00	3,000		3,400	8 10. 13	2,000	6. 50	2,000	6. 50
Doubo	I CL CHIEF I	20.00	5,000	16.00	6,500	21. 00	4, 500	15. 00	3, 500	
Drôme	4. 500	15. 00	4, 200	14. 00	4, 200	14. 00	3, 300	11. 00	3,000	10.00
Eure	4, 800	16.00	4, 480	14. 00	5, 440	17. 00	3, 250	13. 00	3,600	10.00
Eure-et-Loir	4, 925	16. 40	4, 520			15.60	3,875	12.90	4,050	
Finistére:	acres	Carlo	Vertex to		Columbia	41 1	1050	ri et an	Comme	
Finistére: Brest-Morlaix	3, 300	11.00	3, 700		4,000	12.50	2, 400	8.00	2, 200	68. 75
StPolde Leon-Roscott	4 200	14. 00	3, 800	12. 25			1, 200	12.00	2, 300	
Quimper. Chateaulin,				1		1			-,	
Quimper, Chateaulin, Quimperlé	3,600	12.00	4, 100	12.81	4, 400	13. 75	2,400	8.00	2, 600	8. 12
Gard. Garonne (Haute)	3,600	13. 33	3,000	10.00	3,800	12 66	1,800	6. 92	1,800	5. 66
Garonna (Hanta)	2 000	10, 83	3 200	10 66	3 800	12.66	1 640		2,400	

Including payments in kind.
 Work under a contract—usually for a year.
 Vineyard laborers, 3,250 francs per year, 13 francs per day.
 Vineyard laborers, 1,500 francs per year, 7.25 francs per day.
 Foremen in charge of cattle.
 Head carters; other carters, 4,500 francs per year, 13.25 francs per day.

# AVERAGE WAGES OF AGRICULTURAL WORKERS IN FRANCE, 1924-Continued

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8. 75 7. 40

3. 12 5. 66 8. 00

and allow the	PAVE		M	Women							
Department	Farm laborers		Farm servants		Teamsters		Fa labo	rm erers	Fai	rm	
	Per	Per day	Per	Per day	Per year	Per day	Per year	Per day	Per year	Per	
ed Status Sylves A	Francs	Francs	France	Francs	Francs	Francs	Francs	Francs	Francs	Fran	
ers	7 3, 600	7 12, 00	2,000	6. 50			8 1,800	8 7. 00	1, 200	4. (	
ronde	4,500	15, 00	4,800	16.00	4,800	16.00	2, 550	10. 20			
érault	4,500	16.00	4, 300	14.00	4,800	16.00	2, 250	8.00	3,000	9.	
e-et-Vilaine: StMalò Rennes-Fougères	MF 4.01	15. 00	4, 200	14.00	4, 400	14. 66		12.00	3, 300	11.	
Rennes-Fougères		14. 00	4, 200	14.00	4, 400	14. 66		11.00	3, 300	11.	
Redon	10 to 11 to 11 to	9.00	3, 600	12.00	3, 800	12. 66		7.00	2,800	9.	
Centredre-et-Loire		10.00	3, 800	12.66	4, 200	14.00		8.00	3,000	10.	
dre-et-Loire	3, 920	14.00	4, 500	14.00	4, 500	14.00	2, 520	9.00	2,800	9.	
idre:	4 000									1	
Chateauroux, Issoudun La Châtre-Le Blanc	4, 200	14.00	4, 400	14. 65	4, 800	16.00	3, 200	10. 65	4, 200 3, 100	11.	
ere	4 100	14.00	3, 200 4, 500	10.65	4, 400	14. 65 17. 00	3, 200	10. 00	2, 880	9.	
179	3, 400	15. 00	3, 400	9. 34	1,000	11.00	2, 200	10.00	2, 200	6.	
andes 9	3. 200	10. 70	3,000	10,00	4, 300	14.00	1, 930	6, 40	1,720	6.	
oir-et-Cher: Sologne	1		1	MA I	1,000		1		100000	1	
Sologne	4,000	14. 54	4, 500	14.03	5, 400	16. 87	3,000	11.50	3,700	11.	
Beauce	5, 100	17. 00	4, 800	15. 00	6, 300	19. 68	3, 500	12.50	4, 200	12.	
Perche		16. 14	4, 700	14. 68	6,000	18. 75	3, 300	12.00	4,000	12,	
oire oire (Haute-)	2, 500	16.00	5,000	15. 60	5, 000	15. 60	1, 440	12, 00	3, 830	11.	
oire-Inférieure:	2, 300	16, 00	4, 300	11. 80	4, 300	11. 80	1,860	12.00	2,800	7.	
A 10	3,825	12.75	3, 431	10. 60			2, 640	8. 60	2, 555	7.	
B 10 C 10	3, 390	11. 30	3, 540	11.00			2, 250 2, 670	7. 50	2, 555	7.	
oiret	7, 400	13. 50 24. 66	4, 124 7, 000	12.80 19.17	7 000	19. 17	3, 940	8. 90	2, 847 6, 000	8. 16.	
ot	4 000	13. 50	4, 350	12.80	7,000	19. 17	3, 000	17. 90 10. 50	3,000	8.	
ot-et-Garonne	3,000	12.00	3, 600	12.00	3, 500	14.00	2,000	8.00	2, 400	8.	
OZOTO.	1 3 000	15. 00	4,000	12.50	4,000	12. 50	2,000	10.00	3,000	9.	
laine-et-Loire.	4, 800	16.00	4, 800	13. 33	4, 800	13. 33	3, 200	10. 66	3, 200	8.	
lanche	3,600	12,00	3,300	9. 16	4, 200	11. 66	3,000	10.00	3,000	8.	
larne:	13.162	MELLID	WEFFEC	19 1750	7 1113	W. CT	BBBL	THA	38.10		
Vine-growing region	5, 200	18. 95			5,000	16. 65	3,800	12.65			
Reims region	4 000	10 00			6,000	20, 00	4,000	14. 55			
Other regions	2, 490	16.00 12.80	4,000	13. 80	5, 700 4, 850	19. 00 19. 40	2, 300	9.30	9 500	8.	
svenne	3 800	12.00	3, 800	11. 15	4, 200	12.35	2, 400	8.00	2,500	8.	
eurthe-et-Moselle	4, 800	16.00	5, 000	13. 88	1, 200	A. 00	2,000	10.00	4,000	11.	
larne (Haute) layenne leurthe-et-Moselle leuse	4, 800	16.00	4, 950	15.00	5, 775	17. 50	3, 300	11.00	3,300	10.	
lorbinan:	13200	100	1000	ST. 4	38 18s	NACO	17-24	Billion	No to	Wh.	
Lorient et Pontivy	3, 400	11. 33	4,000	12.50	4,000	12.50	2,000	6. 66	2, 500	8.	
Vannes-Ploermel	3,800	12.66	4, 100	12.81	4, 100	12.81	2,000	6. 66	2,600	8.	
ièvre	4,800	16.00	5, 000	13. 70	5, 910	16. 20	2, 550 3, 080	8, 50	4,000	10.	
ise	4 800	16.00	5, 400	15.00	5, 400 116, 000	18, 00	3, 600	11.00	3, 600	10.	
rne.	3, 450	11. 50	5, 120 3, 905	10. 70	4, 252	11. 65	2, 550	8. 50	2,701	7.	
as-de-Calais:	0, 200	11.00	0,000	10.10	7, 402	11.00	2,000	0.00	2, 101		
Arras	4, 900	17. 50	5, 400	18.00	6,000	20, 00	1,800	9,00			
Béthune, north	4, 640	16.00	5,000	16. 65	5, 500	18. 30	1,600	8.00			
Béthune, south	5, 800	20.00	6,000	20, 00	6,000	20.00	2,000	10, 00			
Boulogne et St. Omer	5,000	17. 85	4, 340	14.00	5, 000	16. 65	2,800	9. 65			
Montreuil et St. Pol		15.00	4, 550	13.00	5,000	16. 65	1,500	7. 50		12	
yrénées (Basses):	4, 500	18.00	4, 500	15.00	4, 800	16.00	3,000	13. 00	3,000	10.	
Pau, Bayonne, Oloron et	95.00	The same	12.15	- PARTON	To a Visit	- 1	The Late	1000	1		
Orthez.	3, 200	12.30	3, 400	11. 33	3, 500	11. 66	1,900	7. 50	2, 100	7	
Mauléon	2,600	10.00	2, 800	9. 33	3,000	10.00	1,560	6. 00	1,650		
yrénées (Hautes)	2,800	10.00		1			1,400	5. 00			
vrénées-Orientales		16,00	4, 500	15.00	4, 160	16.00	2,080	8.00	2, 695	8	
hone:		hours	TO US	10000	win to	12/100	South	Tue to	- poli	1000	
Market gardening country.	4,800	16.00	4,800	16.00	1000	123-3	[3, 800	12,00	3,800	12	
Vine-growing valleys and plains	4 000	14 00	4 000	14 00	4,800	16.00	3, 200	10.00	2 000	100	
Mountainous regions	4, 200	14.00 12.00		14.00 12.00		1 TEAC	2, 400	8.00	3, 200		
aone (Haute)	9,000	12.00	0,000	16.00		1 44 00	3, 600			1 40	

Permanent workers; temporary workers, 3,000 francs per year, 10 francs per day.

Permanent workers; temporary workers, 1,500 francs per year, 6.50 francs per day.

Wood plantation laborers; men, 4,300 francs per year, 14 francs per day; women, 2,460 francs per year,

francs per day.

Different sections of the Department of Loire-Inférieure.

Head carters; other carters, 5,100 francs per year, 17 francs per day.

AVERAGE WAGES OF AGRICULTURAL WORKERS IN FRANCE, 1924-Continued

THE BOOK Wine tab			M	en		3 4	d an	Won	nen							
Department	Farm laborers		Farm servants		Teamsters		Farm laborers		Farm servants							
	Per year	Per day	Per	Per	Per	Per day	Per year	Per day	Per year	Per day						
	Francs	Francs	Francs	Francs	Francs	Francs	Francs	Francs	Francs	France						
Saône-et-Loire	4, 350	15.00	3, 915	13.50	4, 495	15.50	2,730	10.50	2, 340	9.00						
Sarthe	3,000	12.00	3, 960	11.00	4, 200	11.66	2,500	10.00	3, 120	8.6						
Sa voie		13.50	3, 600	12.50	3,600	12.50	2, 370	9. 25	2, 200	8.5						
Savoie (Haute)	5,040	18,00	5, 928	19.00	5,700	19.00	3,500	12.50		0.0						
Seine	9, 410	31.00	0,020		9, 810	32.70	-,									
Seine 12	6,000	20.00	PAREMA		7,500	25.00	4,500	15.00								
Seine-Inferieure	4, 500	15.00	4,800	16.00	5,000	16, 65	3, 600	12.00	3,600	12.0						
Seine-et-Marne		16.00	5, 580	18.00	5, 760	18.00	3,000	10.00	3, 410	11.0						
Seine-et-Oise	5, 500	18.00	5,500	18.00	6,000	19.00	3, 300	11.00		11.0						
Sèvres (Deux)	4, 950	16.50	5, 400	17.50	5, 400	17.50	3, 460	10.50	3,800	11.5						
Somme		15. 75	4,000	12.50	5, 400	16.50	2,500	10.00	2,500	8.0						
Tarn		14.30	4, 500	13, 63	3, 800	12.66	3,000	10.70	3,500	10.6						
Tarn-et-Garonne	3,000	12.00	3, 500	12.50	4,000	13. 33	1,800	7. 20	2,000	7.1						
Var	3,600	15.00	3, 900	13,00	4, 500	15.00	1, 320	6.00	1,800	6.0						
Vancluse	3, 240	12,00	3, 390	9. 25	3, 390	11.00	1,610	7.00		-						
Vendée:	0, 210	12.00	0,000	0.20	0,000	11.00	1,010	1.00								
Insular	3,000	10.00					1,800	6.00								
Continental	3,900	13.00	4, 200	13, 10			2,000	8.00	2,900	9.0						
Vienne		14.00	4, 500	13, 63	5,000	15, 15	2,500	10,00	3,500	10.6						
Vienno (Henta)	2, 200	13.00	2,000	10.00	0,000	10.10	2,000	10.00	0,000	10.0						
Vienne (Haute): Limoges	3, 629	12.72	3, 699	11.84	3, 612	13.00	2,091	7.91	2,614	70						
Bellac	2,872	10.65	3, 197	9.75	4, 007	14.00	1,668	6.03	1.874	7.6						
Rochechouart	0 570	10.00		8. 45	3,000	13.00		6.50		6.0						
StYrieix	2, 578	11.31	2,851	8.16	3, 300	10.38	1,666	6.49	2,026	5.5						
	2, 975						1,555		1,662	5.2						
Vosges		15.00	3,600	10.00	4,500	15.00	1,500	10.00	2, 400	6.6						
Yonne	4, 200	15.00	4,000	12.50	4, 800	14.50	2,800	10.00	3, 200	10.0						

<sup>12</sup> Without board and lodging.

#### Holidays, With Pay, for English Wage Earners

HE Ministry of Labor Gazette (London), in its issue for March, 1925, gives some data concerning the provisions for holidays with pay contained in English collective agreements in various industries. It is pointed out that large numbers of salaried clerks and office workers have such holidays as a matter of established custom and that a number of individual employers grant them to their workers without any agreement, but the data given here deal exclusively with wage earners working under collective agreements. A list of approximately 130 agreements is given, 25 of them being general and the remainder district agreements, which provide for length of the holidays with pay, and it is estimated that about a million and a half wage earners are covered by these. The agreements usually provide that the workers shall be paid for all legal holidays and for a specified period in addition, its length varying from 2 to 21 days. Generally the worker must serve for a period varying from 6 to 12 months before he can claim the holidays, and in some cases the holiday period depends upon the length of service. Sometimes it is provided that the holidays must be taken consecutively, or in the summer months, or other conditions may be attached.

Time workers are usually paid for these holidays at the full weekly rates, but for pieceworkers various methods of computing the pay-

ment are used. In some cases it is specified that they are to be paid time rates, but more often their payment is calculated on the basis of the average of their weekly earnings for three or six months previous to the holiday.

An interesting variation is also made by certain newspaper printing firms at Glasgow, who calculate the holiday payment on the average earnings of all pieceworkers and not on those of the individual workers in order to avoid hardship in the case of those whose earnings have been reduced owing to illness.

In some cases the employees themselves provide a part or all of the fund from which the holiday payments come.

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A few of the agreements provide for a contribution in one form or another toward the payment for holidays. In the boot and shoe industry contributions are made to a holiday fund by the employer and the worker, the amount being 1s. 2d.¹a week from the employer and the same from the worker in the case of adult men, with smaller amounts for women, youths, and girls. This fund provides for payment for Easter, Whitsun, August, and Christmas, or other customary local holidays. The contributions extend over 48 weeks in the year, and withdrawals are made by two installments at Easter and Whitsun and two larger installments at August and Christmas. Another example of a contributory system is found in an agreement covering type founders in London who work 50 hours a week in 50 weeks of the year but receive payment for 48 hours only, the extra two hours per week accruing during the year toward holidays.

## English Wage Rates, August, 1914, and December, 1924

THE Ministry of Labor Gazette (London), in its issue for February, 1925, publishes a study of comparative wage rates in August, 1914, and December, 1924, basing the comparison on standard or minimum rates of wages as fixed by collective agreements, arbitration awards, or minimum wage orders, or on minimum rates recognized by the unions concerned. That is, no attempt was made to collect data as to wages actually paid by individual employers, but the study was concerned only with rates which were recognized, at each period, as either minimum or standard.

It is important, however, to realize that the rates of wages actually paid to individual workpeople, or to particular sections of workpeople, may in a considerable proportion of cases, have been altered since 1914, independently of the general changes jointly agreed upon by employers' associations and trade-unions, or fixed by awards, orders, etc.; and that alterations in machinery, in methods of manufacture, in industrial organization, and in systems of remuneration of workpeople, may also, over a period of 10 years, have resulted in appreciable changes in the general level of wages in some industries.

Moreover, there are some industries and sections of industries in which there are no formally recognized minimum or standard rates, and for these no information is given. The data used, therefore, can not be regarded as "furnishing more than an approximate indication of the general levels of wage rates at the two dates," and the reader is warned to use it with caution.

It should be observed that the hours of labor were reduced in 1919 from 3 to

7 per shitt for underground workers, and generally from 51 to 58 in 1914 to 1814 per week for surface workers. The percentage increases in hourly wages are thus greater than the percentage increases in earnings per man shift shows

<sup>&</sup>lt;sup>1</sup> Shilling at par=24.3 cents, penny=2.03 cents; exchange rate varies.

The following table shows the changes in rates for some of the leading industries:

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WEEKLY WAGE RATES IN SPECIFIED OCCUPATIONS IN 1914 and 1924
[Shilling at par=24.3 cents, penny=2.03 cents; exchange rate varies]

Occupation	recog rates o	ge (un- ted) of mized of wages towns	Average per cent	Occupation		Average (un- weighted) of recognized rates of wages in large towns			
tentase to nitot pao	Au- gust cember 4, 1914 31, 1924 of in- crease		Au gu 4, 1	st	De- cember 31, 1924				
Building trades: Bricklayers Masons Carpenters and joiners	8. d. 40 7 39 7 39 11	8. d. 73 4 73 7 73 4	81 86 84	Shipbuilding: Shipwrights Ship joiners Laborers	8. 41 40 22	d.	8. 55 57 38	d. 7 9 5	35
Plumbers	39 8 40 0 36 3 27 0	73 5 73 8 72 1 55 5	85 84 99 105	Printing and bookbinding: Hand compositors, book and job Bookbinders and ma-	35	1	73	9	107
Engineering: Fitters and turners Iron molders Pattern makers	38 11 41 8 42 1	56 6 60 0 60 11	45 44 45	chine rulers Furniture making: Cabinetmakers Upholsterers	33 39 38	11 9	73 74 74	8 6	117 88 92
Laborers	22 10	40 2	76	French polishers Baking: Table hands	37 30	1	74 64	5 8	101 115

The above figures represent the rate for a full ordinary week, with no allowance for unemployment or lost time. It will be seen that there is no uniformity in the advances secured, and that some of the trades, notably the engineering and shipbuilding industries, have not maintained their pre-war level of real wages. (In December, 1924, the cost of living index, as compared with July, 1914, stood at 181.) Weekly hours had been rather generally reduced during the period, so that a study of hourly rates would show a greater percentage increase than the weekly rates.

In coal mining the wage rates are calculated in such a complicated manner that finding their percentage increase would be rather difficult, but changes in the average earnings per shift are shown in the following table:

AVERAGE EARNINGS PER SHIFT IN COAL MINES, 1914 AND 1924
[Shilling at par-24.3 cents, penny-2.03 cents; exchange rate varies]

by nother and the transport of the boundary of		Average earnings per shift						
		1914	December, 1924		of in- crease			
Northumberland Durham Yorks and East Midlands Lancashire, North Staffordshire, and Cheshire South Wales and Monmouth Sectland Other districts	8 6 6 6 6 6	d. 21/4 21/3 73/4 01/4 9 61/4	8. 9 10 11 10 10 10 9	d. 5 0 8 034 101/2 8 5	52 61 70 67 61 58			
Total, all districts	6	53/4	10	83/4	60			

It should be observed that the hours of labor were reduced in 1919 from 8 to 7 per shift for underground workers, and generally from 51 to 58 in 1914 to  $46\frac{1}{2}$  per week for surface workers. The percentage increases in hourly wages are thus greater than the percentage increases in earnings per man shift shown above.

In the cotton industry, piece rates prevail and hours have been reduced since 1914. "If proportionate allowance is made for this reduction in working hours, weekly full-time wages would appear to be generally about 61 per cent above the pre-war level, the equivalent increase in hourly wages being about 86 per cent." In the wool textile industry, in which wages consist of basic piece rates with cost-of-living allowances, it is calculated that the various increases brought weekly rates up to approximately 80 to 90 per cent above the pre-war figures. In the boot and shoe industry the minimum time rate for the majority of skilled male workers in 1914 was 30s." a week in most districts; in 1924 it was 60s.

For men in the heel-building department and in the stock and shoe rooms, the minimum rate at December, 1924, was 57s. a week compared with a rate of 27s. a week adopted in 1914, with effect from the beginning of 1915. For women of 20 years or over, employed in certain operations in the closing and heel-building departments, and the stock and shoe rooms, the minimum rate was 36s. a week in December, 1924, compared with 17s. or 18s. adopted in 1914, with effect from January, 1915. The hours of labor have been reduced from 52½ per week in 1914 to 48 per week.

Considering the situation generally, the Gazette thus summarizes conditions:

Both the amounts and the corresponding percentages of increase over prewar rates show a wide diversity among different classes of workpeople. In some cases the increases in full-time weekly rates at the end of December, 1924, were equivalent to less than 30 per cent on the pre-war rates. On the other hand, they were equivalent in some cases to over 100 per cent on the pre-war rates. The information at the disposal of the department is insufficient to enable the average percentage increase for all industries and occupations to be calculated exactly, but it is estimated that at the end of December, 1924, weekly full-time rates of wages of adult workpeople, in the industries for which information is available, averaged between 70 and 75 per cent above the level of August, 1914, as compared with 170 to 180 per cent at the end of December, 1920, when wages generally were at their highest level. As considerable reductions in normal weekly working hours were made in nearly all industries in 1919 and 1920, the percentage increase in hourly rates of wages since 1914 is substantially greater; while it is not practicable on the basis of available information to make any precise calculation, it seems probable that at the end of December, 1924, the average level of hourly rates of wages was about 90 to 100 per cent above that of August, 1914.

The average percentage increase in weekly full-time wages at the end of each quarter during the past five years, as compared with the beginning of August, 1914, is estimated, on the basis of such information as is available, to have been

approximately as shown below:

PER CENT OF INCREASE IN FULL-TIME WAGES, 1920 TO 1924

	[August, 1914=	-100]								
Year	Estimated average per cent of increase in weekly full-time wage at the end of—									
	March	June	September	December						
1920	130-135 160-170 100-105 70 1 70	150-155 145-155 85-90 65-70 70	160-165 130-135 75-80 1 70 70-75	170-180 110-115 70-75 65-70 70-75						

<sup>1</sup> Nearly.

It should be observed that the foregoing particulars relate to rates of wages for full-time working, and that no account is taken of the loss of actual earnings resulting from unemployment and short-time working, or of the effects of increased or reduced exertion on the earnings of workpeople paid at piece rates of wages, as to which comprehensive statistics are not available.

<sup>&#</sup>x27;Shilling at par=24.3 cents; exchange rate varies.

# Wages in Various Occupations in Haiti

A RECENT communication from the American consul at Cape Haitien, Haiti, dated February 10, 1925, shows the wages paid to various classes of workers in Haiti. The statement below shows the average daily or monthly wages paid during the preceding year for the 10-hour working day in the specified occupations, given in United States currency.

Carpenters, masons, etcCoffee sorters (piecework)Common laborers	\$0, 15 40
Bank tellersCashiers (stores)	\$60. 00-\$80. 00 100. 00-150. 00 1 8. 00- 15. 00 1 3. 00- 6. 00 10. 00- 25. 00

clerng the situation generally, the linxelle thus

or the ingremes in full-time workly rates at the end of Decomber, 1928.

to average oceaning increases for all pidessides and delegations to be

or contribe but it is estimated that at the end of December, 1924, weekly in

orates of wages of adults unkneeple, in the industries for whites informer, or available, averaged netween 70 and 75 net cent above the level of Augost, edulyared with 170 to 180 per cent as the end of December, 1020, when

continues at their highest found of a considerable reductions and note.

while it is not practicable on the basis of wages since 1914 is substantially while it is not practicable on the basis of available information to make the entendation, it seems probable that at the cold of December, 1924, there have so though rates of makes was about 101 to 100 persent above it.

verage percentage increase in weekly full-time wages at the end of each ;

coming the past five teamy as compared with the tentioned of August,

stimated, on the basis of mentinformation as is available, to have been

PER CRINTING INCREASE IN FULL-TIME WALLS, 1933 TO 1834

ely working hours were made in nearly all-industries in 1919 and 1929.

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dould be observed that the foregoing particulars relate to rates of wages within working, and that no account is taken of the loss of actual carrangs of toom memployment and shart-lime working, or of the effects of interfered evertion on the earnings of workpeople paid at piece rates of as to which comprehensive statistics are not available.

<sup>1</sup> With board.

# PRODUCTIVITY AND EFFICIENCY OF LABOR

the evening below and attached his check mimber to each Again, and this is particularly true in the case of pick mining, a tramay have worked all day in the mine and sent up no coal at a

# Productivity of Labor in Selected Coal Mines in Illinois

HE forty-third annual coal report of Illinois, for the fiscal year ending June 30, 1924,1 gives as usual, in addition to a number of summary tables and classifications, the detailed schedules from each mine, thus making it possible to study individual mines or groups of mines over a series of years and to make studies not contemplated in the report itself. The report also shows the thickness

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> of the seam of coal in which the miners work.
>
> From the 1924 report and those of the two previous years, the Bureau of Labor Statistics has compiled information as to the production per day for miners (as distinguished from other mine employees) in the Illinois shipping mines. No local wagon mines are included. The data are here presented separately for (1) strictly pick mines, that is, mines in which the old hand-pick process is still exclusively used, and (2) strictly machine mines. For the purposes of this study mines using both the hand-mining and machine-mining systems in the same plant are ignored. Only the "coal getters" are included. In the machine mines these include the loaders, machine helpers, and machine runners. In pick mining the miner does all of the work of cutting and loading the coal, whether the system be that of undercutting, shearing one or two sides and wedging the coal, or of "blasting from the solid." In both of the tables given in the present article, "shot firers" have been excluded.

> The system of mining in Illinois is almost exclusively "pillar and room" work. The only long-wall exclusively hand-pick mines are the first two mines shown in Table 1, which are in the northern part of the State in a thin seam where the work was started under the long-wall system. The figures in this table cover the entire year's work in every one of the strictly hand-pick mines in Illinois.

> It should be remembered that in reporting the number of days in operation, mines report the so-called "tipple time"; in other words, the days upon which the mine was loading coal into railroad cars for shipment. The trouble here is, of course, that the tipple might be operating when the mine itself was not, or when it was being only partially operated. Again, the time of the miner is computed on the basis of the number of days on which coal mined by him is hoisted, this being shown by his brass check number on the pit cars. It might happen that coal was hoisted on a day when the particular miner was not in the mine at all, he having filled his quota of pit cars

[3008]

<sup>&</sup>lt;sup>1</sup>Illinois. Department of Mines and Minerals. Forty-third annual coal report of Illinois, 1924. [Spring-field, 1924?]. 375 pp.

<sup>2</sup> The 1924 report covers 338 shipping mines.

the evening before and attached his check number to each one. Again, and this is particularly true in the case of pick mining, a man may have worked all day in the mine and sent up no coal at all, hence the records would not show he was in the mine. The method here used to ascertain the average number of persons employed in any occupation was to add up the number of persons given on each pay roll as working at that occupation and divide this by the number of pay rolls. It will be seen that this absorbs all the labor turnover not only for each pay roll but for all the pay rolls, and exaggerates the number of employees in the occupation to the extent of the turnover. The output per man, in tons, as shown in Tables 1 and 2, is therefore below the real figure to the extent that the labor turnover inflates the number of actual full-time workers.

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TABLE 1.-TONS MINED PER PICK MINER PER DAY, 1922 TO 1924

The report also shows the thickness	Thiel	kness of a (feet)	seam	Tons mined per pick miner per day			
County and mine	1	4 0-1		001 -			
epad edd of an outserration ballage	1922	1923	1924	1922	1923	1924	
Bureau County:	(88)	riggin	tor	gab :	VI. A		
St. Paul Coal Co., No. 2	3.6	3.6	3.5	4.0	(1)	3,	
Chicago, Wilm. & F. C. Co., No. 3.	3.0	3.0	3.0	3.1	3.8	3,	
Fulton County: Ellisville Coal Mining Co., Spoonriver	3.6	4.6	4.5	5.4	5.4	4,	
Logan County: Brewerton Coal Co., No. 2	(1)	5.8	5.3	(1)	4.3	4.	
readout Coal Co., No. 0	6.0	6.0	6.5	4.9	8.3	5.	
Springfield Dist. Coal M. Co., No. 55	5. 6	5. 6	6.0	4.5	5. 0	5.	
Springfield Dist. Coal M. Co., No. 54 Springfield Dist. Coal M. Co., No. 53 Springfield Dist. Coal M. Co., No. 52	5. 8	7. 0 5. 8	7. 0 5. 7	5.6	5. 6 4. 3	6.	
Springfield Dist. Coal M. Co., No. 52	5. 1 6. 0	5. 1 6. 0	5. 9	4.8	4. 6 5. 5	4. 6.	
West End Coal Co Citizens Coal M. Co., "B" Springfield Dist. Coal M. Co., No. 57	5. 8	5.8	5. 5	6.4	5.7	6.	
	5. 1	5. 1	5.7	5. 9	5. 5	6.	
Brewerton Coal Co., No. 1 Sangamon Coal Co., No. 2	5, 9	6. 0 5. 9	5. 9 5. 9	4.8	4. 4 5. 6	5.	
Spring Creek Coal Co	5.8	5. 8 6. 0	5. 9 6. 0	6.5	7.4	6. 5.	
Christian County: Springfield Dist. C. M. Co., No. 58	9.0	9.0	7.5	4.2	6, 5	6.	
Pana Coal Co., No. 2.		7.6	7. 0	(1)	(1)	9.	
U. S. Fuel Co., Kelly, No. 4.		7.0	6, 2	6.0	6.8	7.	
St. Clair County: Perry Coal Co., Taylor	7.6	7,0	7.5	8.3	5, 9	8.	
Perry Coal Co., St. Ellen	7.0	(1)	7.0	8.0	(1)	5.	
Groom Coal Co Kolb Coal Co., No. 2	7.0	7.0	7. 0 6. 5	7. 2 8. 5	7.3	7. 9.	
Eldnar Coal Co	7.0	7.0	7.0	5. 1	6. 3	6.	
Southern Coal, C. & M. Co., No. 1	6.6	6.6	6. 3	6.3	6. 6		
Federal Coal Co., No. 25.	9.0	9.0	9. 5	7.3	7.0	9.	
A verage	6.1	6.2	6.1	5. 6	5, 5	5.	

operated. Again, the time of the matter is could be him is horsted.

our shown by his lusse check number on the pit cars. It

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TABLE 2 .- TONS MINED PER MACHINE MINER PER DAY, 1922 TO 1924

County and mine	Thickne	ess of sea	ım (feet)	Tons mined per miner per day			
	1922	1923	1924	1922	1923	1924	
Peoria County:	18th	MgoC	Part !	8400	181	ALTERNA	
Crescent Coal Co., L. M. No. 1	4.0	4.0	4.2	4.6	6.1	6. 5	
Madison Coal Corp., No. 6	8.0	8.0	7.5	10.0	9.4	9. 4	
Chicago, Wilm. & F. Coal Co	6.1	6. 1	6. 5	8. 5	7.3	8.3	
Peabody Coal Co., No. 7	7.0	7.0	7.0	8.7	8.3	8.4	
Peabody Coal Co., No. 8	6.6	6. 6	7. 0	9. 1	7.8	7.3	
Peabody Coal Co., No. 9.	7.0	7. 0	7. 5	11.3	9.6	10.0	
Macoupin County: Superior Coal Co., No. 3 Superior Coal Co., No. 4	238 20	mit with	111100	4	THE STORY	S KAH!	
Superior Coal Co., No. 3	7.5	7. 5 7. 5	7.6	11.0	11. 2	11.0	
Superior Coal Co., No. 4 Superior Coal Co., No. 1 Superior Coal Co., No. 2 Standard Oil Co., No. 2	7.6	7.6	7.0	9. 1 9. 0	9. 8 9. 1	9. 4 9. 6	
Superior Coal Co., No. 2	7. 5	7. 5	7.5	10. 5	10. 6	10. 7	
Standard Oil Co., No. 2.	7.0	7.0	6. 2	5. 7	9. 7	9.3	
Consolidated Coal Co., No. 7	7.0	7.0	7.0	9.7	11.2	10. 2	
Montgomery County:	(III lenis	M TOM			OVER	110000	
Shoal Creek Coal Co., No. 1 Ind. & Ill. Coal Corp., No. 11	7.0	7.0	6. 2	8.6	8.0	8.4	
Ind. & Ill. Coal Corp., No. Il.	8.0	7. 0	7.0	7.0	7.2	8. 0	
Hillsboro Coal Co	8.0	8.0	7.5	9. 3	9.3	9. 3	
Mt. Olive & Staunton Coal Co., No. 2	6.8	6.8	6.9	8.8	8.2	8.6	
New Staunton Coal Co., No. 1.	6.0	6. 0	6. 2	10. 1	9.6	8.5	
Lumaghi Coal Co., No. 2.	8.6	8.6	8.0	10. 2	9. 5	8.8	
Donk Bros. Coal & C. Co., No. 4	5. 1	5. 1	6.0	7.9	9.0	8.4	
Donk Bros. Coal & C. Co., No. 2.	8.0	8.0	7.0	10.7	10.1	9. 7	
St. Clair County: St. Louis & O'Fallon Coal Co., No. 2	6.6		6.0	8.8	8.8	0.0	
Jackson County:	0.0	6.6	0.0	0.8	8.8	9. 0	
Union Colliery Co., Kath	8.3	8.3	8.7	9.9	11.9	8.2	
Perry County:	10		COLUMNS.	18 21	100		
Security Coal & M. Co., No. 1.	7.6	7.6	7.5	10.4	7.1	8.6	
Randolph County:		200 a a				Table	
Madison Coal Corp., Crystal	6.0	6.0	6.0	6.9	8.5	7. 5	
Moffat Coal Co	6. 0	6. 0	6.0	14. 4 7. 6	8. 5 7. 0	8.0 7.2	
Franklin County:	0.0	0.0	0.0	1.0	THE PARTY	1. 4	
Bell & Zoller M. Co., No. 2	(1)	12.0	12.0	9.1	8.0	8.8	
Chicago, Wilm. & F. Coal Co., O., No. 2	(1) (1)	(1)	9.5	(1)	14. 2	10.1	
Saline County:		WITTER S	4.77	100	A GAR GO		
Saline Co. Coal Corp., No. 3	(1)	(1)	6. 0	(1) (1) 7. 7	(1)	8. 2	
Saline Co. Coal Corp., No. 7 O'Gara Coal Co., No. 15	5. 0	(1)	5. 9	(1)	(1) 8. 4	8.6	
O'Gara Coal Co., No. 1	4.8	5. 0	5. 0 5. 3	6.7	6.0	8.3 6.7	
O'Gara Coal Co., No. 3	6.0	5. 0	5. 5	6. 8 7. 2 7. 2	7. 1	7.3	
O'Gara Coal Co., No. 3 O'Gara Coal Co., No. 10	4.8	4.8	5. 0	7.2	7.7	7.4	
Wasson Coal Co., No. 1	6.0	5. 8	5. 5	8.5	8.3	8.0	
J. K. Dering Coal Co., No. 2 Southern Counties C. Co., No. 20	6.0	6. 0	6.0	7.7	6. 4	6.8	
Southern Counties C. Co., No. 20	4.1	4.1	4.5	5.4	6.7	6.9	
Williamson County:	Day Charles					it is a second	
Madison Coal Corp., No. 12	8.0	8.0	7.5	7.3	6.3	8.1	
Cosgrove-Meehan C. Co., No. 3	(1)	7. 0	5. 7	(1)	8. 6	13. 3	
Average	6.7	6.8	6.6	9.0	8.6	8.6	

<sup>1</sup> Not reported

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## Production Per Man in Coal Mines of Nova Scotia and of the United States, 1908 to 1924

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A COMPARISON of tons (2,000 pounds) of coal produced per man employed in the coal mines of Nova Scotia and of the United States, from 1908 to 1924, presented in the annual report on mines for 1924 of the Department of Public Works and Mines of Nova Scotia shows that during the 17-year period an average of 543 tons per man was produced in Nova Scotia and of 726 tons in the United States. The yearly production per man is shown in the following table:

TONS OF COAL PRODUCED PER MAN EMPLOYED IN COAL MINES OF NOVA SCOTIA AND OF THE UNITED STATES, 1908 TO 1924

17.		Year	5.0	Tons i produced per man em- ployed		Year	Tons 1 produced per man em- ployed		
5.0	8.0	9.8	4.7 8:3	Nova Scotia	United States	of C.C. and the No. 2	Nova Scotia	United States	
1908 1909 1910 1911 1912 1913 1914 1916 191				545 545 558 553 572 590 536 569 665	603 691 692 682 740 762 673 724 818	1918	569 523 563 491 424 540 369	890 712 839 615 565 756	

<sup>1</sup> Of 2,000 pounds.

#### Flour Production in China

IN AN article on "Wheat flour mills in China" in the Northwestern Miller, March 18, 1925, a description is given of the modern flour mills now being erected, as contrasted with the primitive mills of which there are thousands still in operation throughout China. Even in those mills which are modeled on modern lines and in which the machinery and equipment are of the best American make, the abundance of cheap coolie labor available still makes for inefficiency.

In North and South America every five to eight story mill has its grain storage elevator of an equal height, while in China in place of the elevator there will be, within the walls of a compound, a number of low one-storied godowns in which the grain is stored. Inside of these godowns a small army of coolies will be found, each one engaged either in carrying an enormous bag of wheat from the landing place several hundred feet or yards distant and piling it in a huge pile in the godown or in tearing down another huge pile of sacks and "dog trotting" with the bags into the cleaning department of the mill which is also perhaps 100 yards distant.

In America from 20 to 30 workmen only are required to operate both the elevator and the mill of a 1,000-barrel flour mill, while in China a mill having the same output requires from 130 to 160 men. An efficient mill superintendent in this country will bend every effort toward reducing labor and operating costs to a minimum while in

China the mill seems to be a sort of benevolent institution where each poor relative of the officials, managers, etc., may find a place. An example is cited of a mill, supervised by a Chinese coolie miller, in which there was not sufficient bin storage and as a result the mill had been hiring 16 coolies at a cost of over \$200 a month to keep bins There being plenty of space for additional storage facilities it was planned to remedy the situation, but four months later when the manager was asked why this had not been done he replied that the poor coolies needed work and that he felt it his duty to keep them on or otherwise they would starve. This plant employed 80 men in the mill and 28 in the office to carry on a business which in America would employ 16 men.

In connection with these statements as to the lack of efficiency in the Chinese milling industry at the present time it is of interest to note the production capacity of mills and the output per worker in modern mills in Manchuria as reported in the Chinese Economic Bulletin, January 10, 1925, published by the Chinese Government

Bureau of Economic Information at Peking.

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The following table showing the average number of workers, the daily output in pounds, the average output per worker, and the amount of capital invested per worker and per 100 pounds produced has been compiled from the figures given in the bulletin.

AVERAGE OUTPUT PER WORKER, CAPITAL INVESTED PER WORKER, AND CAPITAL INVESTED PER 100 POUNDS PRODUCED-FLOUR MILLS OF MANCHURIA

[Mexican dollar=56.43 cents. Yen at par=49.85 cents; exchange rate varies]

ligare out too long air bukeri, soit te man today after a company painting. Name of company painting. Laborate band bollish alls air boyo	Number of workers	Average daily output (pounds)	output per	Capital	Capital invest- ed per worker	Capital invest- ed per 100 pounds pro- duced per day
Heilungkiang Province  Kwang Kee Flour Co. Teh Tseng Flour Co. (Ltd.) Wan Feng Yi Flour Partnership Co. Yung Tsi Flour Co. (Ltd.) Chen Chang Modern Flour Co. Yung Yeh Kwang Flour Co.	60	36, 070 18, 035 36, 070 64, 926 64, 926 54, 105 3, 607	277 401 530 541 1,082 361 72	\$400, 000 150, 000 200, 000 180, 000 240, 000 800, 000 170, 000	\$3, 077 3, 333 2, 941 1, 500 4, 000 5, 333 3, 400	\$1, 109 832 554 277 370 1, 479 4, 713
Chinese Eastern Railway Zone Yung Yuan Flour Co. Chang Ning Flour Co. Yu Shun Li Flour Co. Schwang Ho Cheng Flour Co.	UIIII	18, 035 36, 070	e ord b	50, 000 40, 000 56, 000 100, 000	SL VI	173 222 139 277
Manchuria Flour Mfg. Schwang Ho Mill Tien Hsing Fu Co Yu Chang Ywan Asia Hsing Yeh Co China Flour Mfg. Kaisha Heng Mow Flour Co. (Ltd.) Asia Flour Mfg. Kaisha Sino Japanese Flour Mfg. Kaisha Manchuria Flour Mfg. Kaisha		1 1, 500 1 2, 000 1 2, 000 1 2, 000 1 4, 000	oolog as oolog oo oolog oolog testest oolog oolo	2 5, 750, 000 500, 000 800, 000 1, 500, 000 300, 000 2 5, 000, 000 2 200, 000 2 5, 750, 000	NOB V Salver O Japan Kritses Bada In Jo	

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# Effect of Industrial Employment on Health of Woman Workers

A N ARTICLE on the influence of industry on the health of woman workers, by Dr. George Gelhorn, in the Nation's Health, March, 1925 (pp. 165 et seq.), points out the dangers to the individual woman and to the race in the increasing participation of women in the industrial work of the country. Since the beginning of the present century there has been a steadily growing number of women entering industry, and this movement, which was accentuated during the war, has continued since the industrial crisis

of that period has passed.

During the past quarter of a century there has been a marked shifting of the number of women employed in the various branches of industry. The greatest decrease in any one class of employment is that of servants and laundresses, the number in these occupations decreasing by approximately 431,000 in the period from 1910 to 1920, although in other branches of personal service there have been large increases in the numbers of women employed. There have been many additions to the number of woman workers also in the semiskilled occupations in many industries, including electric supply, automobile, and iron and steel works; and women outnumber men in the clothing industries, silk mills, knitting mills, candy factories, and paper-box factories, and in other industries less important numerically. Women are also employed in the skilled hand trades such as bakeries, the printing and jewelry trades, and the metal trades, though not in increasing numbers. In 1920 the number of women employed in transportation was practically twice that of 1910, more than 84 per cent of the increase being in the single occupation of telephone operator. When the hundreds of thousands of women employed in stores and offices are added to the list it is evident that a large percentage of the industrial and commercial work of the country is performed by women.

The harmful effects of modern industrial life have been recognized for years, but they became even more evident during the war, when in such highly developed industrial countries as England and the United States such a large proportion of young men examined for

miltary service were rejected because of physical unfitness.

Although there is not much statistical information to prove that the effect of industrial life is more severe on women than on men, the sickness insurance statistics of European countries show that women do not stand the strain so well and that they have more lost time on account of sickness than men. Although the occupation is considered the most important factor in causing a high sickness rate among women, there are other factors, such as household cares and the bearing and rearing of children, which contribute to the result.

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Fatigue is the normal result of all human action, and the accumulation of poisons in the system which results from any increase in activity either physical or mental is repaired during rest, when such latigue is within normal limits. Excessive fatigue, however, is one of the most important effects of industrial employment, and when here is not sufficient rest or when the organism is pushed beyond its limits by further forced exertions, fatigue becomes abnormal and pathological. Among the chief causes of overfatigue are speed, monotony, noise, and poor ventilation and lighting of work places. speed is one of the most important of these, and examples are cited of the telephone industry, in which the average calls per hour for an operator are 225, or about 3½ per minute, an average which is often exceeded at the busiest times of the day, and of the needle trades, where a girl tends a sewing machine carrying 12 needles making 4,000 stitches a minute, or 2,400,000 in 10 hours, often under a bright ight and with unshaded eyes and in a deafening roar of machinery.

Speed combined with monotony is exemplified in the pea-canning industry, in which a girl inspects two cans of peas per second, or 72,000 per day, and where the cappers place the caps on the cans at the rate of 60 to 80 per minute, and in the shoe industry where an expert worker in the eyeletting department may make 48,000 eyelets per day. Overtime, which is worked in many industries at the rush seasons, adds to the fatigue already produced by the excessive speed and monotony, which in many cases is accentuated by the length of the regular working-day. In only five States is the 48-hour week fixed by law, 29 States allow women to work from 55 hours to more than 70 hours a week, and 6 States place no limitation whatever on

the hours women may work.

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Women are far more susceptible to fatigue than men; and while there is no definite sequence of symptoms, malnutrition and anemia are extremely common among woman workers who are suffering from fatigue. Headaches are among the most important causes of absenteeism, and while headache is a symptom of many conditions not caused by the occupation, it is a frequent result of fatigue poisoning, the glare of electric light, the noise, the haste, and all the other factors of modern industrial life. This applies also to constipation, which is almost universal among female workers, and to nervousness which

manifests itself in many ways.

Fatigue lowers the power of resistance to contagious or infectious diseases and is a decided factor in the progress of certain constitutional diseases. As is generally well understood, fatigue is of great importance in increasing the liability to accidents. It has been shown that women's accidents are almost twice as numerous as those of men when the fatigue conditions are similar and that they reach their

peak in the late afternoon hours.

In addition to the harmful effects of fatigue upon women, there are the hazards from poisonous substances and from dust, humidity, extremes of temperature, etc. To some of these hazards, such as lead poisoning, women are peculiarly susceptible. The effect of the employment of women on the next generation is shown in the reduction in the birth rate, a comparison of the rate of factory workers with home industry workers, showing a distinctly lower birth rate among the former, while the relation between the industrial work of

women and a high infant mortality rate is well established. Industrial poisons, particularly lead, are responsible for the premature births and miscarriages, as is also the overstrain of factory life, especially if the work involves continuous sitting or standing, repeated lifting reaching, or stretching, jolting, or any work requiring new muscle adaptations. In many cases, too, these results may be traced to the harmful effects of industrial employment on the adolescent girl.

In summing up the survey of the effect of industry on women, the writer advocates physical examinations, at the time of employment, for all workers and the provision of suitable employment for those rejected. This he considers could be secured by means of official agencies, either State or Federal, if there were enough of them and if they developed a system by which it could be known where workers were needed. The final step in the development of protection for woman workers he believes must come through education rather than legislation. Education of the workers as to personal hygiene; of the employers as to the advantages—industrial, physical, social, and moral—of improvement in working conditions; and of the medical profession generally as to the value of studying the problem from every angle.

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# Recent Minimum Wage Reports

#### Massachusetts

THE report of the Department of Labor and Industries of Massachusetts, division of minimum wage, for the year ending November 30, 1923, is a very brief statement of the activities of the minimum wage board and their results. Inspections were made under 11 decrees. There were outstanding at the beginning of the year 4,465 cases of noncompliance, affecting 373 establishments. Further inspections disclosed 828 new cases in 85 of these establishments. The penalty of publicity was used in the case of 44 firms which had also been advertised in 1921. In the case of the other firms a number of adjustments were made, practically closing out the irregularities found. The end of the year showed still pending 113 cases of noncompliance in a single firm, an estate that was advertised in 1921, being an employer of office cleaners. In the new inspection work of the year 1,401 cases of noncompliance in 251 establishments were discovered. Thirty-four of these establishments, in which were 377 cases, were advertised, the remainder of the cases being adjusted in various ways, with the exception of 16 cases in 8 establishments which were still pending at the end of the year.

Changes in orders and in the legal status of the question of advertising delinquents of later date than the report have received attention in issues of the Monthly Labor Review, for August, 1924 (p. 174); December, 1924 (p. 64); and January, 1925 (p. 70). The latest event in this field is the issue of a wage decree for the bread and other bakery products industry. This is the first decree for the occupation covered, and provides a minimum rate of \$13 per week for women of ordinary ability, with rates of \$9 and \$11 per week, respectively, for beginners under 16 years of age and those 16 years of age and over. The occupations include the manufacture of bread, cake, crackers, and similar bakery products. The decree becomes effective May 1,

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Mention is also made in the advance notice containing the above information of the fact that the millinery wage board recently established has recommended a similar minimum rate for adult experienced workers, with special rates ranging from \$6 to \$12 per week for learners, according to age and length of experience. The budget on which this recommendation was based totaled \$13.90, but "owing to the financial condition of the industry, the board recom-mended a rate of \$13 a week." If this recommendation is approved it will supersede existing rates of \$10 and \$11, respectively, for the wholesale and retail branches of the trade.

[1065]

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In addition to the foregoing it is reported that "the minimum wage commission is reconvening the wage board for the candy occupation and is forming a new board to recommend minimum rates of wages for women employed in the manufacture of stationery goods and envelopes." There is also an investigation in progress of the wages of women employed in the manufacture of boot and shoe cut stock and findings.

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#### North Dakota

IN THE analysis of the third biennial minimum wage report of North Dakota, which appeared in the Monthly Labor Review for March (p. 101), use was made of certain data on wages paid by telephone companies in the State. It was there said that "three large companies dominate the State," the rates paid being set forth. A more careful reading of the figures discloses the fact that they are void of significance as regards actual wages, as they are the monthly sums paid for the maintenance of agency exchanges, in which "one operator is hired to look after the exchange and hire whatever help is needed out of the one salary provided. It is quite common to furnish living quarters and sometimes heat and light to such agents."

The report presents data for towns of 1,800 population and over, showing that the North Dakota Independent Telephone Co. employs 32 workers in such localities at a median monthly wage of \$68.96 and 27 inexperienced workers at a median wage of \$56.90. The Northwestern Bell Telephone Co. had 145 experienced workers receiving a median wage of \$72.40 and 40 inexperienced workers at \$58.75. Independent lines reported 37 experienced workers with a median monthly wage of \$58.44 and 10 inexperienced workers at \$50.

The rates for towns with a population under 1,800 are lower, as fixed by the department, though as reported, the independent lines paid a higher median monthly wage for their experienced help in such localities than in the larger places, the amount being \$63.75. The other companies show a lower median, but still running above the fixed minimum.

# Minimum Wage Law of San Luis Potosi, Mexico

THE principal features of the minimum wage law of the State of San Luis Potosi, Mexico, as signed by the governor of that State on January 22, 1925, and published in the Diario Official of March 9, 1925, are given below.

Sections VI, VII, and IX of article 123 of the Federal constitution of Mexico form the basis for this law, being as follows:

The minimum wage to be received by a workman shall be that considered sufficient, according to the conditions prevailing in the respective region of the country, to satisfy the normal needs of the life of the workman, his education and his lawful pleasures, considering him as the head of a family. \* \* \* The same compensation shall be paid for the same work, without regard to sex or nationality. The determination of the minimum wage \* \* \* shall be made by special commissions to be appointed in each municipality and to be subordinated to the central board of conciliation to be established in each State.

[10001]

The law provides for the organization of special permanent commissions, subordinate to the central board of conciliation and arbitration, in each municipality, to be composed of seven membersthree representatives each of the workers and the employers, and one of the municipal authority—whose duty is shall be to fix a minimum wage. In municipalities where the workers are organized they are to hold a convention and appoint representatives, but in those municipalities where there are no labor organizations a meeting of 25 workers may appoint the representatives. Employers' representatives are to be appointed in the same manner. For each representative two alternates are to be appointed. The members of the commissions are to be named on November 30 of each year, on which date they shall meet and proceed to compile a directory classifying the enterprises of the municipality according to the kind and nature of work done. The directory shall specify the number of workmen employed in each establishment, the wages paid, machinery used, living and climatic conditions, and any other circumstances deemed pertinent by the commission. The minimum wage shall then be determined in the presence of the interested parties.

The commission also have arbitral powers in disputes as to the said wage, and their findings are to have the character and force of law. The employer or workers may, however, within two weeks from the date of the finding, appeal to the central board of concilia-

tion and arbitration, whose decision shall be final.

The fact that a wage has been set by the commission does not exempt employers from other obligations in favor of the workers imposed upon them by article 123 of the constitution, nor exempt them from privileges which they had voluntarily granted prior to the fixing of the wage.

The minimum wage is exempt from attachment and discount. Equal wages are to be paid for equal work regardless of sex or

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Employers or their agents who discharge a worker as a result of the setting of a minimum wage are required to reemploy him or pay him an amount equivalent to three months' wages as fixed by the commission. An employer who shuts down in his establishment while the commission is carrying on an investigation therein prior to the fixing of the minimum wage, with the object of opposing the new rate, will be required to pay to each worker an amount equivalent to three months' wages.

No case involving the application of this law is to be tried in a

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# LABOR AGREEMENTS AND AWARDS AND DECISIONS

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# Alaska Railroad

A N AGREEMENT, dated January 16, 1925, has been made with the engineers, firemen, conductors, baggagemen, and brakemen of the Alaska Railroad. Grievances are to be presented to the superintendent within 60 days. Notification of offenses involving suspension or discharge is to be given employees in writing. The Chicago hours of service rules effective April 1, 1908, are given in full. Some of the rules and rates of pay are as follows:

Rates of pay.—Rates for all service shall be as follows:

estimate to branch manufactures of the standard and stand	Per mile	Per day	Monthly minimum
Engineers	\$0, 0804	\$8, 04	\$241, 20
	. 0600	6, 60	198, 00
	. 0768	7, 68	230, 40
	. 0660	6, 60	198, 00

Basic day.—In all road service, 100 miles or less, or eight hours or less (straightaway or turn-around), shall constitute a day's work. Miles in excess of 100 will be computed at the mileage rates provided.

Computed allowance.—Time allowance shall be computed by adding together all hours made or credited to each man in the month. If the sum exceeds 240 hours, all hours in excess of 240 shall be paid for at one-eighth of the daily rate. hours, all hours in excess of 240 shall be paid for at one-eighth of the daily rate. The mileage made shall also be added and if the sum exceeds 3,000 miles, shall be paid for at the mileage rate. Miles or hours shall be paid, whichever produces the larger amount. Should neither the miles or hours produce the monthly minimum, the monthly minimum shall be paid. All time worked or held for duty in excess of eight hours shall be computed on the minute basis.

Days worked per month.—(a) Crews shall not be required to work more than 26 days per month, except in cases of necessity. So far as practicable, the layoff day shall be on Sunday. It is understood that it may be necessary for work train, and in some instances other crews, to work Sundays and holidays; but the policy shall be to avoid Sunday and holiday work.

Trainmen and enginemen who are ready for service the entire month and do not lay off of their own accord are to receive the monthly guaranty provided for. When the regular man does lay off on his own accord the extra man will receive the same compensation that the regular man would have received and this amount will be deducted from the regular man's pay. Members of the crew held at other than home terminal are to be allowed 8 hours out of each 24. Conductors and engineers will report the time of their brakemen and firemen with their own. If any time is disallowed, notification is to be given them at once of the reasons for this. Crews are to be called 1½ hours before leaving time of train. When

112

the crew are not called in turn they will be credited with four hours. If they report for service and are not used they will be credited with the time held until released.

Crews will not be tied up between terminals except in case of delays due to wrecks, washouts, or snow blockades, when they will be credited with the first eight hours so held in addition to time or miles made that day, and for each succeeding calendar day will be allowed not less than eight hours or 100 miles. No duplicate payments shall be made under this rule.

Mileage allowances will be computed on time-table distances.

Deadheading on railroad business is paid for at full time at minimum of eight hours or 100 miles, but is not paid for when a trainman is going to take a run at his own request to which he is entitled through seniority.

Conductors and engineers acting as pilots are to receive the pay in their respective classes. Pilots on snowplows receive conductor's

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When deductions are made from trainmen's and enginemen's pay they will be given a statement in writing if they request it. Upon leaving the service, men are to be paid in full at the earliest practical time.

Seniority.—Seniority lists of all engineers, conductors, baggagemen, and brakemen are to be prepared and posted by superintendents on January 1 and July 1 of each year. Trainmen rank upon the list from the date of their appointment or promotion.

Firemen are placed upon the firemen's roster from the date of their first service and then are promoted to the position of engineer after passing three examinations. Two firemen, when available, are to be promoted for every new engineer hired. The seniority date of a hired engineer, one who has had at least two years' experience on a recognized railway system, is to be the date of his employment. Baggagemen will be taken from the brakemen's seniority roster.

One conductor will be hired for every two brakemen promoted. Conductors will be given a certificate dated the day they pass the examination, which will be their date on the conductor's seniority list. No conductor will be hired who has not had at least two years' experience on a steam, surface railroad and preference is to be given

conductors in service as brakemen.

Trainmen and enginemen laid off on account of reduction of force will be given a service letter and leave of absence for not more than six months. They must keep the superintendent advised of their

address and respond promptly when called for duty.

Annual passes will be granted to trainmen and enginemen whose seniority in service is two years or more, for themselves and families over the entire system. Those of less seniority will be given trip passes for themselves and families upon request. After five years of consecutive service they will be allowed the privilege of securing through their superintendents free transportation or a reduced rate for themselves and dependent members of their families, over the steamship lines and over any railroad in the United States, that the management is able to secure or is permitted by law to obtain.

Leave of absence exceeding six months, except for sickness or disability, will not be granted except by mutual consent of the

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Hostlers and hostlers' helpers.—Hostlers are to receive \$6.32 per day, 79 cents per hour, and \$190 monthly minimum for 8 hours' work, with 20 minutes given for lunch. The rates of pay of hostlers' helpers are to be fixed later, as well as the points where hostlers and helpers are to be employed and the classification of employees. The same guaranty of a month's full pay is granted to hostlers who were ready for service the entire month. One year's experience as fireman is required of hostlers. Seniority rights prevail except in positions filled by "a permanent fixture." No permanent hostler will be permitted to bid on or change to other hostling positions.

Yard service assignment.—Assignment of one conductor and two brakemen for each yard engine is made twice a year, May 1 and November 1, for six months' service in the yard. Regularly assigned yard crews are to have a fixed starting time, which shall not be changed without 12 hours' notice. They are to be allowed 20 minutes for lunch, from 41/2 to 6 hours after starting work. While assigned to perform service within switching limits, yard men are not to be used in road service except in case of emergency.

Engines used in switching service are to be equipped with head-

lights and footboards and proper grab irons at both ends.

Approval of applications.—The applications of trainmen and enginemen entering the service will be approved or rejected within 90 days. When applicant is not notified to the contrary within the time stated, it will be understood that application is approved; but this article shall not operate to prevent the removal from such service of applicant if, subsequent to the expiration of 90 days, it is found that the information given by him in his application was false.

# Bus Transportation—New Jersey

THE Public Service Transportation Co. of New Jersey, which recently has taken over several bus companies, made an agreement April 24, 1924, with its employees, members of nine local divisions of the Amalgamated Association of Street and Electric Railway Employees of America. The Public Service Railway Co. and the Public Service Transportation Co. have worked together harmoniously for the purpose of coordinating service between street cars and busses and employees are to be called upon for interchange of service. For this reason conditions and regulations of the agreement made October 1, 1923, with these same divisions have been made applicable to the employees of the transportation company. Both agreements are to be in force until October 1, 1926.

The wage and overtime scales paid to one-man and two-man car operators are also to be paid to one-man and two-man bus operators, namely, for the first three months of service 56 cents per hour, for the next nine months of service 58 cents per hour, and thereafter 60 cents per hour with 5 cents per hour extra for safety or one-man

car or bus operators.

Provisions relating to reporting at other than the regular time, special runs, signing up for runs, seniority, and other sections in which references are made to trainmen, motormen, and conductors, are made to include bus operators.

The same privileges accorded to the trainmen in settlement of difficulties through arbitration, the provisions made for rest, for granting 10 cents additional pay per hour for instructing new men, for furnishing them a lunch or meal ticket when business is so heavy that there is not time to go to their boarding houses are extended also to bus operators. The one day off in eight (requested) is to be put into effect by the companies as soon as conditions make it possible.

# Chauffeurs-St. Louis, Mo.

CHAUFFEURS' Local Union No. 405 made an agreement with the undertakers of St. Louis on January 1, 1925. A provision with regard to strike breakers has been included and arbitration is arranged for. Each employer is required to sign this agreement. Any employer who fails to discharge a man who does not join the union within 30 days after being employed is considered to have violated the agreement.

The minimum wage scale for chauffeurs is \$30 per week, paid on Saturday of each week. Chauffeurs hired occasionally for funeral work are to receive 30 per cent of the gross money earned, but no trip is to be made for less than \$3.60. When an undertaker who employs no man regularly has a funeral he is required to call on a

man from local 405 and pay him \$4.50 for each funeral.

Sections relating to hours of labor and work expected of a chauffeur follow:

ARTICLE 3. A week's work shall consist of six (6) days' work, except in that week known as Christmas week, in which all chauffeurs will be off Christmas Day with full pay, in addition to their regular day off. Should a chauffeur be required to work on Christmas Day he shall receive as compensation for working Christmas Day a salary equal to two (2) days' pay. Chauffeurs to be notified prior to their quitting time the day before they are to be off.

ART. 4. A day's work shall consist of ten (10) consecutive hours, of which

forty-five (45) minutes shall be granted to a chauffeur for lunch.

ART. 5. All members of local No. 405 shall receive time and one-half for all overtime; overtime to begin immediately after the completion of ten (10) consecutive hours of work.

ART. 6. A chauffeur's work consists of cleaning out the interior of car, dusting exterior of car, and keeping windows clean, but no washing of cars. A chauffeur employed by an undertaker owning and operating only one funeral car will be allowed to wash his car on the employer's time only where no washer is employed.

ART. 9. An extra chauffeur's work shall consist of dusting and cleaning out auto.

#### menc but mombes Machinists—Duquoin, Ill.

AN AGREEMENT, recently made by Duquoin Local No. 514 of the International Association of Machinists, to be binding until April 1, 1926, contains certain provisions which differ from the 1924

There is no change in the wages for journeymen (75 cents an hour) and apprentices, and overtime is to be paid for at time and one-half but employees are not to be compelled to work longer than four hours' overtime in one day. "No employee shall be allowed to work longer than six days before joining the local union." The employers agree to employ only union men or those "who are both eligible and willing to become members of said local union within a period of six days. Any person working after six days have elapsed after he is employed shall cease work until he is initiated in said local."

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A shop committee is provided for, which is to be appointed by the machinists and be recognized as the authority to take up all griev. ances arising between machinists and the company management. If a firm or individual fails to come to an agreement with the shop committee the matter is to be referred to an officer of the International Association of Machinists and the proprietor or manager of said shop, by equal representation of each party concerned. The employer is given the right to lay off whomever he sees fit, instead of the last man hired, as before. It is considered a violation of this contract to accept work coming from a "struck" shop or other shop unfair to organized labor.

# Steam and Operating Engineers-Detroit, Mich.

AN AGREEMENT under which Local Union No. 5 of the International Union of Steam and Operating Engineers is working is of interest for its inclusion of some definitions of both the responsibilities and the rights of the workers. The agreement was signed on February 12, 1924, and provides for its renewal without alteration "unless notice has been given by either party one month before the 31st day of January, 1925." It is stipulated that a week's work shall consist of 48 hours, that a chief engineer shall receive \$55, and an assistant engineer \$50 a week, and that overtime shall be paid for at the rate of time and a half, and Sunday and holiday work at double time. It is also provided that whenever a plant employs more than one engineer, the man in charge shall have the title of chief engineer, and his responsibilities are thus defined and limited: "A chief engineer shall in all cases have full charge of all appliances used for heat, light, power, fire systems, engine and boiler rooms, and be held responsible for the same and nothing else."

It is further agreed that the engineers are to perform their duties faithfully and efficiently, that they are to be in their places in time to start up the machinery at the hour set by the employers, and that they are to keep their plant in proper working order. Moreover, if any engineer wishes to leave his position, he is to give one week's notice, both to his employer and to the business agent of the union, "so that the mutual interests of both parties to this agreement may

be best conserved and maintained."

On their side the employers agree "to hire none but members in good standing in the above organization as engineers, assistant engineers, and all operators in and around their plant," and to submit to a limitation of their right to discharge.

No engineer complying with this agreement shall be discharged unless for the following reasons: Incompetency, drunkenness, negligence, dishonesty, disobedience, or disrespect to employer. In case of sickness or accident, any engineer may be relieved by a substitute on getting his employer's permission, and upon his recovery shall resume his position as usual.

In case of misunderstanding or trouble between the parties to the agreement, arbitration is to be resorted to, the work to be continued under the terms of the agreement pending a decision of the arbitra-

tors, which is to be binding on both sides. Finally, the international body undertakes to see that the agreement is respected, and to use its influence in promoting peace between employers and employees.

The International Union of Steam and Operating Engineers, party of the second part, piedges itself to promote the mutual interest of the parties of this agreement, and to continue the present amicable relations between employer and employee, to observe engine-room regulations, discipline such of its members as may be guilty of conduct unbecoming an engineer; to advertise the standing of said firms through the usual channels, as employing a union engineer, and to use the organization's good offices in behalf of the party of the first part in every reasonable manner.

## Street-Railway Employees-Pomeroy, Ohio

AN INTERESTING example of cooperation between employees and employer is shown in the agreement made in December, 1924, for one year, by the Ohio River Railway & Power Co. and Division No. 684, Amalgamated Association of Street and Electric Railway Employees, of Pomeroy, Ohio. By the terms of this agreement "members of the association agree to cooperate with the company in support of extra man by laying off two days each month, providing the company will give to said extra man all extra work such as line-car, work-car, and freight-car work, that extra men may earn a living wage."

The company is to furnish each employee with a pass for himself and wife, good over all the lines of the company, said pass to be returned upon retirement from the service of the company or upon

substantial proof of misuse of it.

The hours and wages are as follows:

A standard day shall be fixed at nine hours. Any time above nine hours shall constitute overtime: Provided, however, that if a run can not be adjusted so as to relieve an employee on the exact hour completing his nine hours, then no overtime shall be paid until the completion of said run, unless its completion required more than one hour beyond the standard day.

The wage scale for motormen and conductors shall be: To those of less than three months' service, 36 cents per hour. To those of three months' service and less than one year, 39 cents per hour. To those of one year's service or more, 41 cents per hour. Overtime shall be paid for at the rate of one and one-half

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#### AWARDS AND DECISIONS

## Railroads-Decisions of Railroad Labor Board

# Baggagemen

IN DECISION No. 2993, February 19, 1925, the United States Railroad Labor Board considered a request of the Brotherhood of Railroad Trainmen that baggagemen be placed on all passenger trains of the Chicago, Indianapolis & Louisville Railway Co. The trainmen's agreement provided for rates for baggagemen as well as for brakemen and conductors, but the carrier had no baggagemen on its trains. Instead, it farmed its baggage to the express company. The

position of the carrier, with the opinion of the board denying the claim of the employees, follows:

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Carrier's position.—All the trains of this carrier handle baggage, and they also handle express matter. Under the contract with the American Railway Express Co. the men employed by the express company for the purpose of handling express matter also handle baggage. These express messengers are paid directly by the express company, and under the contract the carrier pays a portion of their salaries to the express company. When any trains are operated which handle baggage but do not handle express matter, baggagemen are put on such trains for the purpose of handling such baggage. In such cases these baggagemen are employed by this carrier and paid the rates provided for in the contract of December 1, 1919, or the so-called national agreement.

their salaries to the express company. When any trains are operated which handle baggage but do not handle express matter, baggagemen are put on such trains for the purpose of handling such baggage. In such cases these baggagemen are employed by this carrier and paid the rates provided for in the contract of December 1, 1919, or the so-called national agreement.

There is nothing in the contract which requires the carrier to employ baggagemen on any of its trains. The rate for baggagemen was first incorporated in our trainmen's schedule on June 23, 1910, to cover runs on which no express was handled. These positions were then filled from the ranks of the trainmen, but when express was handled on these runs the baggage was handled by employees of the express company under a contract with the express company which said that employees performed this service in connection with their other duties for the express company. There are no runs on this carrier where the baggage is of sufficient volume to require the service of exclusive baggagemen.

There is nothing in the contract requiring the carrier to place baggagemen on any of its trains, nor requiring it to breach its contract with the express company in order to create new positions. The Railroad Labor Board has no jurisdiction or authority to enter an order herein requiring this carrier to breach its contract with the American Railway Express Co., neither has it any jurisdiction or authority to require the carrier to create new positions on its railroad.

Opinion.—The employees' request that baggagemen be placed on all passenger trains can not be sustained under the rules and practices in effect. There is no rule in the existing schedule with the Brotherhood of Railroad Trainmen requiring such action on the part of the carrier, and there is no evidence of the carrier's having attempted to change past practice for the purpose of reducing wages fixed by agreement between the interested parties or by any tribunal having competent jurisdiction.

## Dining-Car Conductors

THE attention of the Railroad Labor Board was given to a controversy between the Brotherhood of Dining Car Conductors and the Chicago, Burlington & Quincy Railroad Co. in Decision No. 3082, effective March 15, 1925, relative to wages and changes in rules and working conditions. The board directed the incorporation of the following rules into the agreement between the two parties. The remaining rules were remanded for further conference.

# Rule 2.—Rates of pay

There shall be no change in rates of pay or basis of compensation of dining-car conductors unless and until changed by mutual agreement or in conformity with the provisions of the transportation act, 1920.

#### RULE 3.—Basic month

(a) Two hundred and forty (240) hours' work shall constitute a basic month's service; deadhead hours properly authorized to be counted as service hours. Where a regular assignment is less than 240 hours' work per month, deduction will not be made from the monthly wage in consequence thereof.

(b) Service time shall be computed as continuous for each trip from the time required to report for duty until released, subject to the following deductions:

(c) The duly authorized representative of the carrier and of the organization, party hereto, shall agree upon and designate deductions to be made for sleep period en route, and for rest at release points, subject to any emergency conditions requiring a departure therefrom.

(d) When release from duty is less than one hour, no deduction will be made

from the continuity of time.

(e) Conductors will be credited with all hours worked each month, and will be paid overtime at prorata hourly rates for all time worked each month in excess of 240 hours; time in excess of 270 hours in the recognized month shall be paid for at the rate of time and one-half.

#### Representation

THE Railroad Labor Board, in Decision No. 3153, March 19, 1925, rendered a decision against too frequent elections for the purpose of deciding the question of representation. In December, 1923, an election to determine who should be the authorized representatives of the clerical employees on the Union Pacific Railroad resulted in the selection of the Brotherhood of Railway Clerks by a vote of 1,773 out of 3,274 votes cast. January 20, 1925, the carrier advised the brotherhood of the receipt of a communication from the Clerical Employees' Association claiming to represent a majority of the following classes of employees:

Clerks; telephone and switchboard operators; office boys; messengers; train and engine crew callers; station helpers, and employees engaged in sorting waybills and tickets, operating appliances or machines for perforating, addressing envelopes, and other analogous service.

The carrier further stated that the association requested a conference to negotiate an agreement and suggested that it be determined by ballot whether a majority of these classes desired to be represented by the association or the brotherhood, abrogated that part of the agreement covering the classes above named, and requested them to join in conducting an election in accordance with the principles contained in the Railroad Labor Board's decisions Nos. 218 and 220 and addenda thereto. This request was refused and the matter came before the Railroad Labor Board for consideration.

The positions of the employees and the carrier, with the opinion and decision of the Railroad Labor Board are given in the following

extracts from the decision:

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Employees' position.—There is no necessity for again submitting the question of representation to the employees at this time, as this question was determined December 29, 1923. The election held at that time was to definitely determine the representation question.

There is no good that can be accomplished by repeatedly holding representation

The representation question is being forced upon the employees by

the carrier through their paid agents.

There has been no change in conditions since December 29, 1923, that warrants the carrier in questioning our right as a representative of the majority of the employees involved. The result of the election held in December, 1923, has not been protested by the carrier or the Clerical Employees' Association, but, to the contrary, the result was accepted by all parties at interest. We do not believe it is the intention of the transportation act to permit this carrier to continually raise the question of representation for the purpose of obstructing the functions of our organization.

Our organization is now the recognized representative of the majority of the

employees and has an agreement with the carrier now in effect.

Carrier's position.—It is admitted that an election was conducted during December, 1923, for the purpose of deciding at that time the wishes of the classes of employees involved in this dispute in regard to representation. Conditions, however, since that time have materially changed. The Clerical Employees' Association officers have recently furnished evidence to the management showing that they are not only a duly organized body with constitution and by-laws adopted, but have approximately 1,200 dues-paying members, and additional applications for membership being received almost daily.

The position taken by the Brotherhood of Pailway and Steamship Clarks

The position taken by the Brotherhood of Railway and Steamship Clerks, freight Handlers, Express and Station Employees' organization indicates that it is their contention that the election conducted in December, 1923, permanently

and forever settles the question of representation, which appears preposterous. Changed conditions and sentiment must be given consideration, and the classes of employees involved in this dispute should be permitted at this time to determine who they desire to represent them. It is, therefore, the management's contention that a ballot should be spread without delay.

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Opinion.—Generally it is the opinion of the board that the only fair way to decide a dispute on the question of representation of employees is an election by secret ballot in the manner prescribed in Decisions Nos. 218 and 220 and addenda thereto. With this in mind, in deciding disputes as to whether or not there should be an election, the board has directed that elections be held upon a

reasonable showing that the employees desire a change.

It appears that the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees requested a revision of agreement in July, 1924, less than eight months after the representation question had been decided and negotiations had not been held when the carrier requested another

The board is of the opinion that there is no necessity for a representation election unless there is a reasonable presumption that a majority of the employees The evidence in the present case does not create such predesire a change. sumption.

The board does not confirm the contention of the employees that an election once held definitely and for all time settles the question of representation.

Decision.—Under the facts and circumstances of this particular case, the Railroad Labor Board decides that the Brotherhood of Railway and Steamship Clerks, Freight Handlers, Express and Station Employees is the duly authorized representative of the class of employees concerned and declines to order an election upon the evidence submitted.

# on to drag and between Station Agents

THE Railroad Labor Board, in Decision No. 3107, March 12, 1925, answered in the negative the request of the American Railway Agents' Association to represent the agents at 52 stations, 42 of which are now included in the existing schedule of the Order of Railroad Telegraphers in their agreement with the Cleveland, Cincinnati, Chicago & St. Louis Railway Co.

The request of the American Railway Agents' Association is based on the contention that the agents whom they wish to represent are not required to do any telegraphing and that these positions should be designated as a separate class of subordinate officials and be eliminated from the telegraphers' schedule

The American Railway Agents' Association also requests the right to negotiate rate of pay and rules to govern working conditions of 31 other agents, 29 of whom by mutual agreement between the Order of Railroad Telegraphers and the carrier have been classified as officials under the terms of Ex parte No. 72 of the Interstate Commerce Commission, dated February 5, 1924, and 2 agents who are not included in the existing telegraphers' agreement by reason of dispute between the telegraphers' committee and the carrier as to whether such positions should be classified as official positions under the Interstate Commerce Commission ruling.

Opinion.—Information in possession of the Railroad Labor Board shows that it has been the common practice for many years, not only on the Cleveland, Cincinnati, Chicago & St. Louis Railway but on practically all carriers, for station agents to be classified with telegraphers and other positions in the telegraph department and that a large majority of the station agents actually performed some telegraph service or other service coming within the scope of the telegraphers' schedule agreement. The board must also recognize the fact that all agents that fall within the class of officials are not within its jurisdiction.

#### in aming dense to the malagement

IN Decision No. 3083, March 6, 1925, the Railroad Labor Board settled a dispute between two unions as to which was entitled to make an agreement with the carrier. 1 or contention that the election [9701]

The Alabama & Vicksburg Railway Co. had made an agreement with the Brotherhood of Railroad Trainmen December 10, 1919, covering conductors, trainmen, and yardmen, in which the two latter groups were represented by a single committee elected by them both. On May 28, 1924, a second ballot was taken to determine what organization represented a majority of the yard-service employees, embracing foremen, helpers, and switch tenders, the result indicating that a majority of these employees desired representation by the switchmen's union.

The Brotherhood of Railroad Trainmen was unwilling to cancel that part of its contract relating to yardmen, and the carrier refused to enter into a new contract without a ruling by the Railroad Labor Board, for the carrier desired to avoid any interruption to its opera-

tions and to remain in harmony with all its employees. The Railroad Labor Board's decision was as follows:

Having determined by secret ballot, in which all yardmen participated, that a majority of said yardmen have chosen the Switchmen's Union of North America as their representative in future negotiation of rules to govern rates of pay and working conditions of yard foremen, helpers, and switch tenders, it becomes incumbent upon the carrier to serve such notice as is necessary under the Brother-hood of Railroad Trainmen's schedule of its intention to eliminate yardmen therefrom, and to negotiate an agreement with the Switchmen's Union of North America covering such yardmen.

Having reopened the schedule with the Brotherhood of Railroad Trainmen, the parties thereto should confer for the purpose of revising the agreement in such a manner as may be required by reason of the change in representation of yard foremen, helpers, and switch tenders heretofore included in the scope rule

of the Brotherhood of Railroad Trainmen's agreement.

## Telegraphers

THE dispute between the Pennsylvania Railroad and its employees in station, telegraph, and tower service as to which organization should represent the latter in their dealings with the carrier was decided by the Railroad Labor Board in its Decision No. 2781, January 17, 1925, in favor of the Order of Railroad Telegraphers.

Following this decision the parties were notified that the board would conduct a hearing, February 17, 1925, on the question of wages and rules governing working conditions. At this meeting only the representatives of the employees appeared.

March 1, 1925, in Decision No. 3003, the board promulgated rules to be incorporated in the schedule of rules and working conditions of the employees. These rules are the same as those promulgated in Decision Nos. 757, 2025, and 2374. The first two were published in the Monthly Labor Review, April, 1922, pages 121-124, and for April, 1924, page 105. The question of wages was reserved, to be decided later.

# Clothing Industry—New York City

# Pay for Legal Holidays

N CASE No. 53, decided March 7, 1925, by the impartial chairman of the New York clothing industry, the union claimed that 11 examiners were entitled to pay for two legal holidays, in accordance with a rule in effect since 1918, by which members of Cutters' Local No. 4 receive pay for nine legal holidays including the two for which

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pay was claimed. It was argued that since the examiners were members of that local, they were entitled to the same consideration as cutters. The firm's practice has been not to pay examiners for holidays when they were working in the same shops with tailors, but in this case the examiners were on a separate floor and were instructed not to work even though the tailors did.

The firm contended that the practice of paying examiners for legal holidays varied, that they had not been paid for holidays since the Fourth of July, 1923, and that they had not complained until the

present time.

The chairman held that since there is an understanding in the market that members of the cutters' local receive pay for legal holidays, and "since for all practical purposes examiners are members of the cutters' group," the examiners should be paid for holidays.

#### Piece Rate for Buttonholes

IN CASE No. 46, decided February 14, 1925, the impartial chairman of the New York clothing industry set a piecework price for making buttonholes. The union asked for 7 cents, while the firm considered 5½ cents a fair price, and in support of its contention exhibited coats from other houses, with the rates paid. The firm contended that 120 buttonholes would be a fair day's output while the union estimate was about 105.

The decision was as follows:

The impartial chairman does not claim to be an expert on these matters, but even a casual examination of the several coats submitted reveals the fact that the buttonholes on the Shapiro coat are better in workmanship. The variance of the probable output of the worker in question as estimated by the representative of the firm and the representative of the union is not very great. The impartial chairman therefore sets 6 cents as the piece rate for these buttonholes, this rate to be retroactive.

#### Work Sent to Nonunion Contractor

THE claim of the union in Case No. 57, before the impartial chairman of the New York clothing industry, decided March 25, 1925, was to the effect that work sent to a nonunion contractor in Newark should be removed and sent to a union shop and that workers in the shops regularly working for the firm should be compensated for work diverted from their shops. This demand was made after the firm had failed to heed the complaint made by the union to the merchants' exchange about the work sent out and, the union claimed, had sent a second lot to the contractor, whereupon the union ordered a stoppage of work in all shops of the firm.

The representative of the exchange emphasized the fact that the firm was at fault in sending work to a nonunion contractor and that no attempt to defend the action had ever been made. The firm claimed, however, that a second lot had not been sent and that the company did not know that the shop was nonunion. Furthermore, the firm had sustained considerable loss due to the stoppage and considered this a serious violation of the agreement which specifically

forbids stoppages.

The decision of the impartial chairman was as follows:

The impartial chairman feels that in this case the arbitrary action of the one side may be balanced against the arbitrary action of the other side in assessing the measure of blame. It was clearly wrong of the firm to send work to a non-

registered, nonunion contractor, when the status of the contractor could so easily have been ascertained. Ignorance can be no excuse here, as the agreement between the manufacturers' exchange and the union is clear on this subject. On the other hand the impartial chairman can not but view with disfavor the action of the union in ordering a stoppage, when the agreement clearly provides that there shall be no stoppages, however great the provocation, but that whatever disputes arise shall be taken before the chairman. There was no need for direct action in this case, with its resultant wastefulness as regards both the workers' earnings and shop production, since the impartial machinery exists to provide an orderly adjustment of differences. In view of the losses already sustained by the firm, and since the union took the law into its own hands, the impartial chairman can not grant the request of the union to further penalize the

## Shirt Industry—Greater New York

VIOLATION of the agreement with the union was charged against three shirt companies in cases No. 60, February 16, 1925, No. 62 and No. 63, February 21, 1925, brought before the board of arbitration for this industry. These three companies had discharged all of their cutters—an act that was considered a lockout by the Two of these companies escaped from their agreement with the union by resigning from the association and moving their factories out of town and thus out of the jurisdiction of the board of The third company (involved in case No. 60) maintained that it had resigned from the association, but inasmuch as the resignation had not been acted upon officially by the association, the board ruled that the agreement was binding until a member had officially resigned, and that the firm was obligated to reinstate its workers, and if any change in status was to be made the matter must be taken up through the proper channels provided for in the agreement.

Case No. 66, decided March 6, 1925, by the same board of arbitration, dealt with the charge made by the union that a shirt company gave work to a nonunion contractor in New York City. The Manufacturers' Association brought countercharges that the union called a stoppage of work in the factory of this firm. The representatives of the firm admitted that the action of the firm was wrong, but pointed out that the union instead of bringing the case to arbitration as provided for in the agreement unlawfully caused a stoppage in the

factory.

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The chairman of the board of arbitration noted that it was plainly evident that both parties had violated their agreement, and made the

following ruling:

The board of arbitration considers that these violations of both parties occur too frequently of late to be condoned. On the part of the firm, there seems to have been a willful violation and the board believes that a heavy fine should be imposed for an act of this kind. But the action of the union in this case estops the board from imposing the punishment merited. The officials of the organization not only violated their own agreement, but the law of their union. If the officials of the union had settled this matter through the impartial machinery instead of taking the law into their own hands, then this firm could have been properly punished.

The board, however, desires to caution the firm that while it has escaped this time, that future violations of the agreement will meet with the proper penalty, and also to point out to it that it is only saved in this instance through the action

the other party to the agreement.
In respect to the stoppage, the workers have already been ordered to return to work.

## EMPLOYMENT AND UNEMPLOYMENT

Employment and Earnings of Railroad Employees, February, 1924, and January and February, 1925

THE following tables show the number of employees and the earnings in various occupations among railroad employees in February, 1925, in comparison with employment and earnings in January, 1925, and February, 1924.

ings in January, 1925, and February, 1924.

The figures are for Class I roads—that is, all roads having operat-

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ing revenues of \$1,000,000 a year and over.

COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN FEBRUARY, 1925, WITH THOSE OF JANUARY, 1925, AND FEBRUARY, 1924

[From monthly reports of Interstate Commerce Commission. As data for only the more important occupations are shown separately, the group totals are not the sum of the items under the respective groups; the grand totals will be found on pp. 128 and 131]

	Profession	nal, clerical, a	nd general	Maintenar	ace of way and	structurea							
Month and year	Clerks	Stenogra- phers and typists	Total for group	Laborers (extra gang and work train)	Track and roadway section laborers	Total for group							
and adaptement of	bytagilde	Num	ber of employe	es at middle of	month								
February, 1924 January, 1925 February, 1925	169, 617 166, 632 166, 819	25, 184 25, 067 25, 190	282, 740 280, 630 281, 174	40, 701 37, 180 38, 810	171, 444 169, 728 169, 338	335, 449 330, 420 329, 983							
shirt company	og that a	Total earnings											
February, 1924 January, 1925 February, 1925	\$20, 888, 809 21, 545, 825 20, 363, 290	\$2, 980, 976 3, 009, 049 2, 976, 809	\$37, 102, 740 38, 213, 342 35, 660, 437	\$2,777,826 2,860,560 2,667,904	\$11, 805, 508 12, 806, 725 11, 226, 043	\$29, 794, 395 31, 801, 725 28, 839, 804							
Forging spilett	Maintenance of equipment and stores												
	Carmen	Machinists	Skilled trade helpers	Laborers (shops, en- gine houses, power plants, and stores)	Common laborers (shops, en- gine houses, power plants, and stores)	Total for group							
of this should, be	the respect	Number of employees at middle of month											
February, 1924 January, 1925 February, 1925	120, 969 119, 993 119, 343	65, 123 62, 975 63, 149	120, 780 119, 473 119, 482	48, 904 47, 198 46, 479	60, 933 62, 117 61, 411	548, 700 542, 905 541, 057							
able Perpares and S	Mat white	Total earnings											
February, 1924 January, 1925 February, 1925	\$16, 182, 455 17, 362, 524 15, 689, 723	\$9, 672, 871 10, 056, 717 9, 097, 591	\$12, 308, 617 13, 155, 373 11, 939, 211	\$4, 509, 836 4, 581, 609 4, 099, 067	\$4, 660, 250 5, 072, 683 4, 566, 056	\$66, 789, 248 70, 570, 071 64, 432, 723							
194			0801	in from the									

COMPARISON OF EMPLOYMENT AND EARNINGS OF RAILROAD EMPLOYEES IN FEBRUARY, 1925, WITH THOSE OF JANUARY, 1925, AND FEBRUARY, 1924—Contd.

1500	on myself In	Transportatio	n other than t	rain and yard	412/1/1/19	Transpor-					
Month and year	Station agents	Telegraphers, telephoners, and towermen	Truckers (stations, warehouses, and platforms)	Crossing and bridge flagmen and gatemen	Total for group	tation (yard masters, switch ten- ders, and hostlers)					
		Numb	er of employed	s at middle of	month	ner viii					
February, 1924 January, 1925 February, 1925	31, 436 31, 101 31, 096	26, 964 26, 355 26, 269	38, 992 36, 914 38, 450	22, 870 22, 783 22, 741	208, 379 204, 251 207, 274	25, 728 24, 755 24, 697					
		12 14	Total e	arnings							
February, 1924	\$4, 554, 836 4, 835, 409 4, 463, 215	\$3, 722, 196 3, 931, 885 3, 553, 720	\$3, 461, 148 3, 409, 845 3, 303, 070	\$1, 696, 042 1, 708, 821 1, 682, 816	\$24, 049, 636 24, 962, 126 23, 586, 098	\$4, 410, 860 4, 572, 815 4, 311, 084					
in othe Const	Transportation, train and engine										
and with February and 1.8 per cent	Road conductors	Road brakemen and flagmen	Yard brakemen and yardmen	Road engineers and motormen	Road firemen and helpers	Total for group					
s principality st	initet <sup>8</sup> ,	Numb	er of employed	es at middle of	month	To Tribia					
February, 1924 January, 1925 February, 1925	37, 602 36, 771 36, 426	77, 596 75, 544 74, 424	55, 064 54, 307 53, 905	45, 760 44, 238 43, 636	47, 879 46, 184 45, 477	336, 033 328, 941 324, 699					
over our mi enea	70/11 7/	etons elle	Total e	arnings	the nin	Five o					
February, 1924 January, 1925 February, 1925	\$8, 262, 286 8, 831, 089 7, 861, 821	\$12, 375, 054 13, 206, 916 11, 724, 488	\$8, 749, 406 9, 489, 318 8, 443, 845	\$11, 235, 100 11, 834, 460 10, 541, 043	\$8, 302, 987 8, 826, 623 7, 803, 055	\$61, 712, 680 66, 033, 952 58, 807, 423					

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Extent of Operation of Bituminous Coal Mines, February 28 to March 28, 1925

CONTINUING a series of tables which have appeared in previous numbers of the Monthly Labor Review, the accompanying table shows for a large number of coal mines in the bituminous fields the number of mines closed the entire week and the number working certain classified hours per week from February 28 to March 28, 1925. The number of mines reporting varied each week, and the figures are not given as being a complete presentation of all mines, but are believed fairly to represent the conditions as to regularity of work in the bituminous mines of the country. The mines included in this report ordinarily represent 55 to 60 per cent of the total output of bituminous coal. The figures are based on data furnished to the Bureau of Labor Statistics by the United States Geological Survey.

WORKING TIME IN BITUMINOUS COAL MINES IN THE UNITED STATES BY WEEKS, FEBRUARY 28 TO MARCH 28, 1925

[The mines included ordinarily represent from 55 to 60 per cent of the total output. Prepared by the Bureau of Labor Statistics from data furnished by the United States Geological Survey]

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		3.5			Mines working—												
Week end- ing—	Number of mines reporting	ele	ines osed tire eek	th	ess ian ours	un	nd der ours	ur	and der lours	un	and der lours	un	and der ours	un	and der ours		
M.C.	126	No.	Per	No.	Percent	No.	Per	No.	Percent	No.	Per cent	No.	Percent	No.	Per	No.	Per
1925 Feb. 28 Mar. 7 Mar. 14 Mar. 21 Mar. 28	2, 045 2, 044 2, 014 1, 953 1, 890	717 730 722 783 768	35. 1 35. 7 35. 8 40. 1 40. 6	25 17 33 19 29	1. 2 .8 1. 6 1. 0 1. 5	174 92 114 136 140	8. 5 4. 5 5. 7 7. 0 7. 4	249 213 273 235 227	12. 2 10. 4 13. 6 12. 0 12. 0	303 281 299 286 270	14. 8 13. 7 14. 8 14. 6 14. 3	238 269 224 198 161	11. 6 13. 2 11. 1 10. 1 8. 5	174 227 165 160 145	8. 5 11. 1 8. 2 8. 2 7. 7	165 215 184 136 150	8. 10. 9. 7. 7.

# Employment in Selected Industries in March, 1925

MPLOYMENT in manufacturing industries in the United States increased 1 per cent in March as compared with February, the aggregate earnings of employees increased 1.8 per cent.

and per capita earnings increased 0.9 per cent.

These unweighted figures, presented by the United States Department of Labor through the Bureau of Labor Statistics, are based on reports from 8,972 establishments in 52 industries, covering 2,808,019 employees whose total earnings during one week in March were The same establishments in February reported 2,780,-**\$75,422,103.** 

606 employees and total pay rolls of \$74,059,653.

Five of the nine geographic divisions show increases in employment in March and eight show increases in pay-roll totals. increases in employment were from 2.5 per cent in the East North Central States to 0.3 per cent in the New England States. The decreases in employment were from 1.2 per cent each in the West South Central States and in the Pacific States to 0.2 per cent in the East South Central States. The increases in pay-roll totals ranged from 3 per cent in the South Atlantic States to less than one-tenth of 1 per cent in the East South Central States, and the one decrease, which occurred in the West North Central States, was 0.1 per cent only.

## Comparison of Employment in February and March, 1925

THERE were gains in employment in March in 9 of the 12 groups of industries, 4 of the 9 groups showing gains of 4 per cent or These 4 groups, made up largely of industries having pronounced seasonal proclivities, were chemicals; stone, clay, and glass products; metal products, other than iron and steel; and vehicles The food group lost over 3 per cent of its for land transportation. employees, while the lumber and leather groups show losses of much less than 1 per cent each.

The food group alone of the 12 groups of industries failed to show a gain in the aggregate earnings of employees, the decrease being over The 4 groups showing the largest gains in employees, as

a whole, show even larger gains in pay-roll totals.

Thirty-two of the 52 separate industries show gains in employment in March, the greatest, for the most part, being purely seasonal ones, such as 40 per cent in the fertilizer industry, in which the high point of the shipping season is regularly reached in March; 9 per cent in the brick, tile, and terra cotta industry, which in March begins its upward movement after the inactive winter season; and 7.2 per cent, each, in the automobile and the carriage industries. Other gains of considerable size were 7.2 per cent in cane-sugar refining; 4.5 per cent in stamped ware; 4 per cent in cement, and 3.5 per cent each in agricultural implements and in ice cream.

One-half of the 20 losses in employment in individual industries in March were decidedly less than 1 per cent. The industries showing more marked decreases in employment were chewing and smoking tobacco, 6.2 per cent; slaughtering and meat packing, 5.6 per cent; flour, 5.3 per cent; confectionery, woolen goods, and rubber boots and shoes, from 2.7 to 2 per cent; and men's clothing, baking, paper

boxes, and sawmills, from 1.8 to 1.3 per cent.

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er as Forty-one of the 52 industries show increased pay-roll totals in March, fertilizers leading with an increase of over 38 per cent. Nine industries show gains in employees' earnings of from 10.7 per cent to 4.8 per cent. These industries are sugar, carriages, brick, automobiles, stamped ware, ice cream, millinery, cement, and agricultural implements.

Of the 11 industries showing decreased pay-roll totals, only 5 show decreases of over 1.1 per cent, and these 5 naturally are the industries

showing the largest decreases in employment.

For convenient reference the latest figures available relating to all employees, excluding executives and officials, on Class I railroads, drawn from Interstate Commerce Commission reports, are given at the foot of the first and second tables.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN FEBRUARY AND MARCH, 1925

	Estab-	Number o	n pay roll	Per	Amount	of pay roll	Per
Industry	lish- ments	February, 1925	March, 1925	of change	February, 1925	March, 1925	of
Food and kindred products	1.054	189,777	183,802	-3.1	\$4,684,068	\$4,579,509	-2.2
Slaughtering and meat packing	83	83, 834	79, 136	-5.6	2, 081, 358	1, 942, 593	-6.7
Confectionery	261	30, 930	30, 104	-2.7	571, 570	572, 207	+0.1
Ice cream	99	6, 211	6, 430	+3.5	205, 249	217, 906	+6.2
Flour.	291	13, 632	12, 910	-5.3	357, 770	334, 442	-6.5
Baking	307	45, 450	44, 806	-1.4	1, 170, 759	1, 183, 288	+1.1
Sugar refining, cane	13	9, 720	10, 416	+7.2	297, 362	329, 073	+10.7
Textiles and their products	1.754	581,117	581,568	+0.1	11,854,228	11,945,444	+0.8
Cotton goods	341	204, 410	203, 571	-0.4	3, 396, 024	3, 421, 263	+0.7
Hosiery and knit goods	258	80, 075	81, 581	+1.9	1, 470, 329	1, 519, 058	+3.3
Silk goods	200	55, 937	56, 985	+1.9	1, 210, 182	1, 254, 489	+3.7
Woolen and worsted goods	190	73, 036	71, 423	-2.2	1, 720, 482	1, 639, 547	-4.7
Carpets and rugs	31	23, 066	23, 253	+0.8	626, 021	635, 516	+1.5
Dyeing and finishing textiles.	91	30, 170	30, 481	+1.0	753, 005	768, 202	+2.0
Clothing, men's	281	60, 157	59, 078	-1.8	1, 514, 053	1, 498, 051	-1.1
Shirts and collars	85	20, 892	21, 094	+1.0	330, 894	343, 830	
Clothing, women's	190	19, 063	19, 497	+23	521, 207	535, 017	+2.6
Millinery and lace goods	87	14, 311	14, 605	+2.1	312, 026	330, 471	+5.9
Iron and steel and their prod-		-16			Marin Contractor		
ucts	1,551	615,267	618,692	+0.6	18,315,603	18,443,958	+0.7
Iron and steel	217	290, 279	291, 709	+0.5	8, 860, 016	8, 895, 099	+0.4
Structural ironwork	141	18, 501	18, 589	+0.5	524, 054	527, 626	+0.7
Foundry and machine-shop		1 (7 11 13 13 13				1293 21 73	model.
products	733	187, 978	189, 801	+1.0	5, 522, 892	5, 616, 441	+1.7
Hardware.	59	34, 564	34, 769	+0.6	874, 303	878, 244	
Machine tools	183	25, 588	25, 401	-0.7		756, 316	-1.1

[1083]

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN FEBRUARY AND MARCH, 1925—Continued

most upinteur noulwi	Estab-	Number o	on pay roll	1 - 01	A mount of	f pay roll	Per
Industry Industry	lish- ments	Fohrmery 1	March, 1925	cent of change	February, 1925	March, 1925	cent of change
Iron and steel and their pro-	De 10	101244 22		70	the dinomic	717	
ducts-Continued.	g braz	SUBLITA	o say D	118 01	domoins	and an I	1
Steam fittings and steam and hot-water heating apparatus.	133	41, 945	41, 963	+(1)	\$1, 295, 603	\$1, 290, 369	-0.2
Stoves	85	16, 412	16, 460		473, 706	479, 558	-0.2 +1.4
Lumber and its products	1,066	208,682	202,828	-0.6	4,455,895	4,519,017	+1.4
Lumber, sawmills	416	110, 911	109, 522	-1.3	2, 265, 282	2, 315, 621	+22
Lumber, millworkFurniture	260 390		33, 430 59, 371		801, 749 1, 388, 864	801, 196 1, 402, 200	-0.1
		TOTAL TRACE	1	DOUGHT !	TO SERVICE DATE BOX 1 IN	1 2 1 1 1 2 1 2 1 2 1 1 1 1 1 1 1 1 1 1	+1.0
Leather and its products	122		122,852 26,666		2,869,785 690,956	2,877,819 689,643	+0.1
Boots and shoes	234	96, 226	96, 186		2, 178, 779	<b>2, 188, 176</b>	-0.5 +0.4
Paper and printing	4 0 2 0 1 1	151,787	153,210		4,749,806	4,817,951	+1.4
Paper and pulp	200	52, 216	53, 563	+2.6	1, 402, 667	1, 434, 821	+1.4
Paper boxes	153	16, 449	16, 211	1-1.4	351, 164	355, 405	+1.5
Printing, book and job	245	40, 169	40, 050	-0.3	1, 331, 585	1, 354, 546	+1.1
Printing, newspaper		4 1000	43, 386		1, 663, 890	1, 673, 179	+0.1
Chemicals and allied products. Chemicals		78,204	81,571 23,550	+4.8	2,281,815	2,899,768 610, 692	+5.5
Fertilizers	96		11, 162	+40.3	140, 035	193, 358	+1.1
Petroleum refining	56	46, 956	46, 859		1, 542, 677	1, 595, 718	+3.
Stone, clay, and glass prod-	0.83	THE PART OF	contolig:	TIO GI	SUTURE AND	ME SOULS	
ucts	601	100,185	104,196		2,663,232	2,769,896	+4.6
Cement	79	21, 664	22, 522 30, 372	+4.0	625, 105 721, 768	657, 141 784, 966	+5.
Brick, tile, and terra cotta Pottery	338	27, 857 12, 587	30, 372 12, 548		721, 768 332, 636	784, 966 334, 938	+8.1
Glass	131	38, 077	38, 754		983, 723	992, 851	+0.1
Metal products, other than	FYRO	trosauti	Filher des	rode	enruleubn	i II od.	
iron and steel	45	14,907	15,581		860,909	387,133	+7.
Stamped and enameled ware	45	14, 907	15, 581	+4.5	360, 909	387, 133	+7.1
Tobacco products	. 189	42,981	42,987	+(1)	712,982	716,105	+0.4
Chewing and smoking tobacco	94	0.970	9 702	4.9	147 750	Man Carlo	1
and snuffCigars and cigarettes	34 155	9, 370	8, 792 34, 195		147, 750 565, 232	136, 668 579, 437	
Vehicles for land transporta-	A.C.	00, 011	02,	1	000,	010, 10.	7-
tion	918	448,818	468,762	+4.4	14,548,222	15,326,233	+5.5
Automobiles	214	269, 280	288, 641	+7.2	9, 123, 519	9, 868, 306	+8.
Carriages and wagons		2, 284	2, 449	+7.2	57, 128	63, 039	
Car building and repairing,	179	10.000	10 448		495 124	K00 630	13
Car building and repairing,	179	16,030	16, 448	+2.6	485, 124	502, 630	+3.
steam-railroad	483	161, 219	161, 224	+(1)	4, 882, 451	4, 892, 258	+0.
Miscellaneous industries	892	231,055	282,475	1	6,568,668	6,689,275	
Agricultural implements	97	24, 542	25, 401	+3.5	678, 858	711, 513	
Electrical machinery, appara-		THE PERSON OF	100000000000000000000000000000000000000	100000	Control of the Control		1
tus, and supplies		97, 126	96, 610		2, 736, 135	2, 724, 450 220, 600	
Pianos and organs Rubber boots and shoes		7,960	7, 925 17, 809	-0.4 -2.0	225, 170 439, 186	229, 609 424, 846	+2 -3.
Automobile tires	72	18, 181 55, 029	55, 959	+1.7	1, 680, 602	424, 846 1, 725, 405	+2
Shipbuilding, steel	42	28, 217	28, 771	+2.0	803, 712	823, 452	
DOMESTIC TO STANDARD	-		2,808,019	-	74,059,653	75,422,108	_
	100000	30 4 /55	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.115. 1	STREET, STREET		
	puuu	ation by G	eograpii	C Dec	810718		-
GEOGRAPHIC DIVISION	12000	198 24	Tet a			Sa January	1
New England	1, 259	416, 806	418, 175	+0.3	10, 096, 822	10, 100, 825	+0
Middle Atlantic	2. 271	835, 788	839, 586	+0.5	23, 171, 555	23, 624, 597	1 +2
East North Central	2, 367	862, 592	884, 137 140, 107	+2.5 -0.5	25, 994, 142 3, 467, 229	26, 711, 423	+2 -0.
South Atlantie	918	140, 759 233, 354	236, 671	+1.4	3, 467, 229 4, 444, 257	3, 463, 173 4, 579, 428	+3.
East South Central	283	95, 035	94, 857	-0.2	1, 848, 003	1, 848, 037	1 +(
West South Central	316	71,016	70, 131	-1.2	1, 541, 198	1, 569, 079	+1.
Mountain.	133	23, 248	23, 524	+1.2	659, 952	671, 224	+1.
Pacific	8 979	9 780 808	100, 831	-	2, 836, 495	2, 845, 317	+0
Total	8,972	1	2,808,019	1 1	74,059,653 ¢	75,422,108	7.
En	mploy	1		ailroa			1
T	EX MAN	1.717	1, 902		1 \$235, 1	54, 031	
January 15, 1925 February 15, 1925		1,708		-0.2		637, 569	A

<sup>&</sup>lt;sup>1</sup> Less than one-tenth of 1 per cent.

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Amount of pay roll for one month.

## Comparison of Employment in March, 1925, and March, 1924

REPORTS from 7,506 establishments are available for a comparison of employment and employees' earnings between March, 1925, and March, 1924. These reports, from identical establishments in the two years, show a decrease of 4 per cent in employment, a decrease of 3.1 per cent in the aggregate earnings of employees, and an increase

of 1 per cent in per capita earnings.

Two of the nine geographic divisions show increases both in employment and in pay-roll totals in the 12-month period. These are the South Atlantic States and the West South Central States. In each case the increase in pay-roll totals is considerably greater than the increase in employment. The East South Central States show an increase in pay-roll totals, but they also show a decrease in employment. The remaining six divisions show decreases in both items. The Pacific States show a decrease of 7.7 per cent in employment and of 7.2 per cent in pay-roll totals, and the East North Central States show decreases of 6.2 per cent and 5.6 in the two items. The decreases in the four remaining divisions were considerably smaller.

As in February, each of the 12 groups of industries, except the paper and printing group, reported fewer employees in March, 1925, than in March, 1924. The greatest decreases in employment were 7.8 per cent in the vehicles group of industries and 5.8 per cent in both the food and iron and steel groups, while the smallest decrease was 0.9 per cent in the tobacco group. The paper and printing group of industries shows a gain in March, 1925, over March, 1924, of 1.1 per cent in employment, which is slightly more than the gain

reported last month.

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0.4 2.0 3.3 2.7 2.5

1.8

0.1 2.0 2.8 0.1 3.0 -(1) -1.8 -1.7

-0.3

1.8

-8.3

The paper and printing group, as in the last report, shows also a gain in employees' earnings in the 12-month period, while the textile group also shows increased pay-roll totals in March, 1925, instead of a decrease as in February. The remaining 10 groups all continue to

show smaller pay-roll totals.

Twelve of the 52 separate industries gained in employment in March, 1925, as compared with the same month in 1924, while 18 industries gained in the aggregate earnings of employees. Automobile tires gained 15.4 per cent in employment and 16.2 per cent in pay-roll totals; dyeing and finishing textiles, 8.6 per cent and 18.3 per cent, respectively, in the two items; and silk goods, 6 per cent and 12.3 per cent, respectively, in the two items. Rubber boots and shoes, steam railroad car building and repairing, furniture, the printing industries, and confectionery also show both improved employment and earnings, although in a lesser degree.

The carriage and wagon industry, chewing and smoking tobacco and snuff, automobiles, machine tools, and electrical machinery show the largest declines in this comparison over a 12-month period, the losses in employment being from 11 per cent to over 14 per cent and the losses in aggregate earnings being from 8.1 per cent to 15.9 per cent. Eighteen other industries show decreased employment of over 4 per cent, and 13 other industries show decreased pay-roll totals of over 4 per cent. Twelve of the 18 industries and 12 of the

13 industries indicated above are identical.

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN MARCH, 1924, AND MARCH, 1925

n- nts	March,	March,	cent	- 10267	17179	cent
- 1	1924	1925	change	March, 1924	March, 1925	of
26	172,645	162,653	-5.8	\$4,294,820	\$4,087,847	-4.
82	86, 154	78,625	-8.7	2,114,529	1,929,372	-8.
23	16, 693	16,750	+0.3	314,666	320,606	+1.
73	4, 692	4,595	-2.1	148,037	147,296	-0.
65	12, 432	12, 030	-3. 2	325, 637	313, 069	-3.
72	42, 888	41, 078	-4. 2	1, 085, 756	1, 068, 472	-1.
11	9, 786	9, 575	-2. 2	306, 195	309, 032	+0.
99 90 01	518,882 179, 337 69, 765	507,991 176, 751 68, 610	-1.1 -1.4 -1.7	10,867,942 2,975,182 1,257,594	10,572,540 2,983,835	+2. +0.
85 58	50, 003 65, 461	52, 983 63, 406	+6.0 -3.1	1, 039, 378 1, 509, 332	1, 313, 265 1, 166, 800 1, 460, 000	+4. +12. -3.
19 71 96 80	20, 840 26, 058 53, 432 21, 741	20, 212 28, 286 50, 637 20, 456	-3. 0 +8. 6 -5. 2 -5. 9	599, 433 606, 724 1, 344, 538 338, 920	542, 874 718, 048 1; 338, 419 333, 972	-9. +18. -0.
43	15, 199 12, 046	14, 901 11, 749	-2.0 -2.5	422, 204 274, 637	440, 404 274, 923	-1. +4. +0.
20	562,792	530,026	-5.8	16,796,259	15,844,910	-5.
78	263, 153	249,515	-5.2	8,133,525	7,625,389	-6.
31	18, 012	17,216	-4.4	495,272	488,567	-1.
93	179, 870	168, 742	-6. 2	5, 227, 023	5, 030, 546	-3.
47	29, 115	27, 050	-7. 1	737, 204	668, 337	-9.
68	24, 156	21, 405	-11. 4	702, 502	630, 948	-10.
19	31, 316	29, 918	-4.5	979, 891	931, 214	-5.
84	17, 170	16, 180	-5.8	520, 842	469, 909	-9.
88	192,292	188,935	-1.7	4,272,189	4,218,671	-1.
89	107, 134	103, 100	-3.8	2,276,517	2,184,536	-4.
45	32, 317	31, 689	-1.9	781,857	758,534	-3.
49	52, 841	54, 146	+2.5	1,213,815	1,275,601	+5.
12	117,004	114,780	-1.9	2,706,807	2,697,256	-0.
	26,095	25,701	-1.5	672,522	664,559	-1.
	90,909	89,029	-2.1	2,034,285	2,032,697	-0.
41 47 24	127,718 43,645 15,492 30,945 37,631	129,162 44,728 14,841 31,150 38,443	+1.1 +2.5 -4.2 +0.7 +2.2	3,967,623 1,183,288 329,693 1,026,507 1,428,135	4,057,771 1,197,613 319,244 1,058,550 1,482,364	+2. +1. -3. +3. +3.
71	68,574	60,415	-5.0	1,826,328	1,777,450	-2,
	17,797	17, 625	-1.0	478,140	478, 974	+0,
	8,291	8, 590	+3.6	154,029	153, 956	(1)
	37,486	34, 200	-8.8	1,194,159	1, 144, 520	-4,
35 04 11	90,223	85,548	-5.2	2,387,358	2,265,605	-5.
	17,788	16, 246	-8.7	506,078	471,878	-6.
	26,160	25, 204	-3.7	673,121	645,384	-4.
	10,181	9, 730	-4.4	286,780	265,939	-7.
	36,094	34, 368	-4.8	921,374	882,404	-4.
	14,329	18,553	-5.4	359,095	338,475	-5.
	14,329	13,553	-5.4	359,095	338,475	-5.
2	86,708	36,370	-0.9	664,477	622,564	-6.
	7, 749	6, 723	-13. 2	128, 428	107, 973	-15.
	28, 959	29, 647	+2. 4	536, 049	514, 591	-4.
72	449,529	414,412	-7.8	14,477,358	13,669,486	-5.
	303,414	264, 228	-12.9	10, 234, 414	9, 106, 976	-11.
11	2,823	2, 425	-14.1	68, 040	62, 497	-8.
	08 12 96 89 41 47 77 86 71 55 50 28 85 50 41 11 11 18	08 117,004 12 26,095 96 90,909 89 127,718 41 43,645 47 15,492 24 30,945 77 37,631 86 68,574 11,797 35 8,291 36 17,788 90,228 137,486 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 14,329 16,749 17,749 18 128,959	08 117,004 114,780 12 26,095 25,701 96 90,909 89,029 89,029 81 127,718 129,162 14,841 15,492 14,841 24 30,945 31,150 37,631 38,443 36 68,574 60,415 11,797 17,625 55 8,291 8,590 37,486 34,200 89 90,223 85,548 17,788 16,246 17,788 16,246 17,788 16,246 17,181 9,730 18 36,094 34,368 14,329 13,553 14,329 14,412	08       117,004       114,780       -1.9         12       26,095       25,701       -1.5         96       90,009       89,029       -2.1         89       127,718       129,162       +1.1         41       43,645       44,728       +2.5         47       15,492       14,841       -4.2         24       30,945       31,150       +0.7         77       37,631       38,443       +2.2         86       63,574       60,415       -5.0         71       17,797       17,625       -1.0         55       8,291       8,590       +3.6         65       37,486       34,200       -8.8         28       90,223       85,548       -5.2         55       17,788       16,246       -8.7         44       26,160       25,204       -3.7         41       10,181       9,730       -4.4         48       36,094       34,368       -4.8         48       14,329       13,553       -5.4         49       36,708       36,370       -0.9         31       7,749       6,723       -13.2	08       117,004       114,780       -1.9       2,706,807         12       26,095       25,701       -1.5       672,522         96       90,909       89,029       -2.1       2,034,285         89       127,713       129,162       +1.1       3,967,623         41       43,645       44,728       +2.5       1,183,288         47       15,492       14,841       -4.2       329,693         24       30,945       31,150       +0.7       1,026,507         77       37,631       38,443       +2.2       1,428,135         86       68,574       60,415       -5.0       1,826,328         71       17,797       17,625       -1.0       478,140         55       8,291       8,590       +3.6       154,029         50       37,486       34,200       +8.8       1,194,159         28       90,223       85,548       -5.2       2,387,353         35       17,788       16,246       -8.7       506,078         36       17,880       25,204       -3.7       503,721         31       10,181       9,730       -4.4       286,780         38	08         117,004         114,780         -1.9         2,706,867         2,697,256           12         26,095         25,701         -1.5         672,522         664,559           96         90,909         89,029         -2.1         2,034,285         2,032,697           89         127,713         129,162         +1.1         3,967,623         4,057,771           41         43,645         44,728         +2.5         1,183,288         1,197,613           47         15,492         14,841         -4.2         329,693         319,244           24         30,945         31,150         +0.7         1,026,507         1,058,550           77         37,631         38,443         +2.2         1,428,135         1,482,364           86         63,574         60,415         -5.0         1,826,328         1,777,450           71         17,797         17,625         -1.0         478,140         478,974           55         8,291         8,590         +3.6         154,029         1,53,956           60         37,486         34,200         -8.8         1,194,159         1,144,520           28         90,223         85,548         -5.2

COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS DURING ONE WEEK EACH IN MARCH, 1924, AND MARCH, 1925—Continued

	Wat a b	Number	on pay roll	Per	Amount	Per	
Industry	Estab- lish- ments	March, 1924	March, 1925	cent of change	March, 1924	March, 1925	cent of change
Miscellaneous Industries	367	226,350	220,338	-2.7	<b>86,429,528</b> 677, 571	\$6,306,348	-1.9
Agricultural implements	91	24,511	24,360	-0.6		685,702	+1.2
Electrical machinery, appara-	124	103, 913	92, 491	-11.0	2, 950, 832	2, 620, 435	-11. 2
tus, and supplies  Pianos and organs	34	8, 415	7, 718	-8.3	242, 422	223, 973	-7. 6
Rubber boots and shoesAutomobile tiresShipbuilding, steel	10	16, 712	17, 537	+4. 9	384, 277	418, 220	+8.8
	69	45, 834	52, 896	+15. 4	1, 408, 475	1, 636, 851	+16.2
	39	26, 965	25, 336	-6. 0	765, 951	721, 162	-5.8
Total	7,506	2,567,041	2,464,133	-4.0	68,549,774	66,457,918	-3.1

#### Recapitulation by Geographic Divisions

Total	7,506	2,567,041	2,464,188	-4.0	68,549,774	66,457,918	-8.1
Pacific	447	97, 077	89, 647	-7. 7	2, 717, 983	2, 522, 871	-7.
West South Central	264 110	62, 750 20, 849	63, 432 20, 044	$+1.1 \\ -3.9$	1, 385, 614 596, 558	1, 425, 290 575, 650	+3. +2. -3.
East South Central	284	70, 972	70, 907	-0.1	1, 307 107	1, 351, 810	+3.
West North Central	628 782	117, 883 194, 037	113, 955 194, 674	-3.3 + 0.3	2, 850, 240 3, 461, 872	2, 789, 070 3, 658, 359	$\frac{-2.1}{+5.7}$
East North Central	2,082	874, 175	820, 195	-6.2	26, 371, 949	24, 885, 531	-5.6
Middle Atlantic	1, 908	748, 450	724, 037	-3.3	20, 760, 529	20, 372, 149	-1.9
GEOGRAPHIC DIVISION New England	1,001	380, 848	367, 242	-3.6	\$9, 097, 922	\$8, 877, 188	-2

#### Employment on Class I Railroads

	1	1 1		
February 15, 1924	1,737,029 1,708,884	-1.6	1 \$223, 859, 559 1 216, 637, 569	-3.2

<sup>1</sup> Amount of pay roll for one month.

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-4.8 -8.8 -1.9 -0.5 -3.9

-1.6 -0.9

-2.0 -0.3 -4.4

12.3 -3.3 -9.4 18.3 -0.5 -1.5 +4.3 +0.1

-6.2 -1.4

-9.3 10.2

-5.0 -9.8

-1.8 -4.0 -3.0 +5.1

-0.4

-1.2 -0.1

+2.8 +1.2 -3.2 +3.1 +3.8

-2.7 +0.2 (1) -4.2

-5.1 -6.8 -4.1 -7.3 -4.2

-5.7 -5.7

-6.3

15.9 -4.0

11.0

-26

-8.4

#### Per Capita Earnings

PER CAPITA earnings increased in March, 1925, as compared with February in 36 of the 52 separate industries here considered and

decreased in the remaining 16 industries.

The increases and the decreases in this monthly comparison were all much smaller than frequently is the case. The greatest increases were in the millinery and lace goods, petroleum refining, sawmill, and cane sugar refining industries and ranged from 3.8 per cent to 3.3 per cent. The greatest decrease in per capita earnings was 2.5 per cent in the woolen and worsted-goods industry.

Comparing per capita earnings in March, 1925, with such earnings in March, 1924, increases are shown in 34 industries and decreases in 17 industries, while the per capita earnings in the slaughtering and

meat-packing industry were unchanged.

The dyeing and finishing textiles industry shows an increase of 9.1 per cent in per capita earnings in the 12-month period, followed by carriages with an increase of 6.9 per cent, women's clothing with an increase of 6.4 per cent, hosiery and knit goods with an increase of 6.2 per cent, silk goods with an increase of 5.9 per cent, petroleum refining with an increase of 5.1 per cent, and men's clothing with an increase of 5 per cent. The carpet industry shows a loss of 6.6 per cent in per capita earnings in March, 1925, as compared with the same month in 1924, the cigar industry a loss of 6.2 per cent, and the stove industry a loss of 4.3 per cent.

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COMPARISON OF PER CAPITA EARNINGS MARCH, 1925, WITH FEBRUARY, 1925, AND MARCH, 1924, BY INDUSTRIES

Industry	Per cent of change March, 1925, com- pared with—		Industry	Per cent of change March, 1925, com- pared with—		
1 - 1 164,600,30	Febru- ary, 1925	March, 1924	rest at 7 tos	Febru- ary, 1925	March 1924	
Millinery and lace goods		+2.6	Carpets and rugs	+0.7	-6.0	
Petroleum refining	+3.7	+5.1	Foundry and machine-shop prod-	1000	0.1	
Lumber, sawmills	+3.5	-0.3	ucts	+0.7	+21	
Sugar refining, cane	+3.3	+3.1	Boots and shoes	+0.5	+2	
Carriages and wagons	+29	+6.9	Shipbuilding, steel	+0.5	+0.	
Confectionery	+2.9	+1.5	Clothing, women's	+0.4	+6.	
Shirts and collars	+2.9 +2.7	+4.7	Car building and repairing, steam-		1 00	
Paper boxes	+2.7	+1.1	railroad	+0.2	+4.	
Stamped and enameled ware	+2.6	-0.4	Structural ironwork	+0.2	+3.	
Baking	+2.5	+27	Electrical machinery, apparatus,			
Ice cream	+2.5	+1.6	and supplies	+0.1	-0.	
Pianos and organs	+2.4	+0.7	Leather	(1)	+0.	
Printing, book and job	+2.0	+2.4	Iron and steel	-0.1	-1.	
Silk goods	+1.8	+5.9	Brick, tile, and terra cotta	-0.2	-0.	
Hosiery and knit goods	+1.4	+6.2	Hardware	-0. 2	-2	
Agricultural implements	+1.3	+1.8	Paper and pulp	-0.3	-1.	
Cotton goods	+1.2	+1.7	Lumber, millwork	-0.4	-1.	
Cement	411	+2.1	Machine tools	-0.4	+1.	
Car building and repairing, elec-			Steam fittings and steam and hot-	0, 1	71.	
Car building and repairing, elec- tric-railroad	+1.0	+2.8	water heating apparatus	-0.4	-0.	
Dyeing and finishing textiles	+1.0	+9.1	Printing, newspaper		+1.	
Furniture	+1.0	+2.6			+0.	
Pottery		-3.0	Slaughtering and meat packing	-1.1	(2)	
Automobiles	+0.9	+2.2	Rubber boots and shoes	-1.2	+3.	
Automobile tires	+0.9	+0.7	Flour	-1.3	-0.	
Stoves.	+0.9	-4.3	Chewing and smoking tobacco	1.0	-0,	
Chemicals	+0.8	+1.2	and snuff	-1.5	-3	
Cigars and cigarettes	+0.8	-6.2	Fertilizers.	-1.6	-3.	
Clothing, men's	+0.8	+5.0	Woolen and worsted goods	-2.5	-0.	

<sup>1</sup> Less than one-tenth of 1 per cent.

1 No change.

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Comparing per capita earnings in the nine geographic divisions for March, 1925, with those for February, 1925, and also with those for March, 1924, only one decrease is found, that being a very small one (0.2 per cent) in the comparison with February, 1925, for the New England States. The increases in the monthly comparison for the remaining eight divisions ranged from 3.1 per cent in the West South Central States to 0.2 per cent in the East South Central States.

The increases in the comparison between March, 1925, and the same month of 1924 ranged from 5.3 per cent in the South Atlantic States to 0.4 per cent in the Mountain States.

The total increases for all divisions combined in both the monthly and yearly comparisons were nearly the same, being 0.9 per cent in the monthly comparison and 1 per cent in the comparison over a year's interval.

COMPARISON OF PER CAPITA EARNINGS MARCH, 1925, WITH FEBRUARY, 1925, AND MARCH, 1924, BY GEOGRAPHIC DIVISIONS

Geographic division	Per cent of change March, 1925, com- pared with—			
to a montow the and of the out	February, 1925	March, 1924		
West South Central South Atlantic Middle Atlantic Pacific Mountain West North Central East North Central East South Central New England New England	+3.1 +1.6 +1.5 +1.5 +0.5 +0.4 +0.3 +0.2 -0.2	+1.8 +5.3 +1.4 +0.5 +0.4 +1.2 +0.6 +3.5 +1.2		
Total	+0.9	+1.0		

### Time and Capacity Operation

REPORTS in percentage terms from 6,722 establishments in March show no changes in the average per cent of full-time operation and the average per cent of full-capacity operation as compared with February. The establishments in operation were employing an average of 83 per cent of a full normal force of employees and these employees were working an average of 93 per cent of full time.

One per cent of the reporting establishments were idle, 69 per cent were operating on a full-time schedule, and 30 per cent on a part-time schedule, while 42 per cent of the establishments had a full normal force of employees and 57 per cent were operating with

a reduced force.

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Over 2,100,000 employees are represented in the following tables, and of these nearly 1,500,000 were working on a full-time schedule and nearly 625,000 on a part-time schedule.

FULL AND PART TIME AND FULL AND PART CAPACITY OPERATION IN MANUFAC-TURING ESTABLISHMENTS IN MARCH, 1925

Industry		shments	estat	nts	Average per cent of full time operated	estal	ent of olish- nts ting—	A verage per cent of full capacity operated
13 E9 199 73 TO 1 C9	Total num- ber	Per cent idle	Full time	Part	establish- ments operating	Full capac- ity	Part capac- ity	in establish- ments operating
Food and kindred products	779	1	55	45	84	34	65	79
Slaughtering and meat packing	40		43	58	87	35	65	79
Confectionery			52	48	84	15	84	72
Ice cream			81	19	95	6	94	75
Flour	249	1	28	71	69	37	63	77
Baking	218		83 75	17 25	96 91	63	45 38	88 95
Textiles and their products		1	78	21	96	50	49	87
Cotton goods	300	3	80	17	97	64	33	94
Hosiery and knit goods		1	73	27	97	46	53	86
Silk goods		l il	83	17	98	41	59	85
Woolen and worsted goods	161	1 1	75	25	95	45	55	85
Carpets and rugs			91	9	99	45	55	82
Dyeing and finishing textiles	93		66	34	94	42	58	82
Clothing, men's	179	1	79	21	94	49	50	8
Shirts and collars	44		82	18	97	52	48	83
Clothing, women's	98		84	16	97	52	48	86
Millinery and lace goods	46		70	30	90	30	70	79
Iron and steel and their products	1,230	1	65	84	92	23	76	. 74
Iron and steel	171	1	57	42	89	27	71	81
Structural ironwork	105		76	24	94	20	80	75
Foundry and machine-shop prod-							-	
ucts	590	1	65	34	93	21	78	73
Hardware	50		64	36	96	34	66	85
Machine tools	152	1	74	25	95	7	92	54
Steam fittings and steam and hot-				-	0.0	40	***	
water heating apparatus	97		73	27	95 84	42 26	58	85
Stoves	1	5	40	55	84	20	09	19
Lumber and its products	871	1	71	28	95	54	45	89
Lumber, sawmills	347	2	67	31	94	65	33	92
Lumber, millwork	196	1	74	26	96	52	48	89
Furniture	328		73	27	96	44	56	87
Leather and its products	263		68	31	92	36	64	81
Leather	97		85	15	96	32	68	76
Boots and shoes	166	1	59	40	90	39	61	84
Paper and printing	516	1	76	28	95	62	87	91
Paper and pulp	148	2	62	36	92	58	40	92
raper boxes	1 91		60	40	92	36	64	84
Printing, book and job	162		81	19	97	57	43	89
Printing, newspaper	115		100		100	96	4	99

[1089]

FULL AND PART TIME AND FULL AND PART CAPACITY OPERATION IN MANUFACTURING ESTABLISHMENTS IN MARCH, 1925—Continued

omis-lint to associate as a second of the se	Establishments reporting		Per cent of establish- ments operating—		Average per cent of full time operated	estab	Per cent of establish- ments operating—	
Mayerage of 94 per cent	Total num- ber	Per cent idle	Full time	Part time	in establish- ments operating	Full capacity	Part capacity	operated in establish- ments operating
Chemicals and allied products  Chemicals  Fertilizers  Petroleum refining	71	1	85 79 84 98	15 21 15 2		47 55 34 61	52 45 64 39	85 84 84 90
Stone, clay, and glass products Cement Brick, tile, and terra cotta Pottery Glass	64	4 5 6	62 78 57 41 71	34 17 37 59 27	89 96 87 88 92	44 56 43 41 38	52 39 51 59 61	88 90 81 87
Metal products other than iron and steel. Stamped and enameled ware	30 30		77 77	23 23	96 96	28 23	77 77	76
Tobacco products  Chewing and smoking tobacco and snuff  Cigars and cigarettes	109 26 83	3 4	52 58 51	45 42 46	90 89	28 23 30	69 77 66	74 72 75
Vehicles for land transportation Automobiles Carriages and wagons Car building and repairing, elec-	732 150 27		75 56 59	25 44 41	96 92 89	49 19 26	51 81 74	84 72 65
tric-railroad Car building and repairing, steam- railroad	139 416	ig ii	90	10 22	99 97	75 52	25 47	94
Miscellaneous industriesAgricultural implements	281 74		70 77	80 23	95 96	30 28	70 72	76 74
Electrical machinery, apparatus, and supplies. Pianos and organs. Rubber boots and shoes. Automobile tires. Shipbuilding, steel	9 51	2	73 82 22 43 100	27 18 78 55	96 96 87 89 100	32 50 11 33 8	68 50 89 65 92	79 86 79 80 54
Total	6,722	1	69	80	98	42	57	88

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# Wage Changes

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ents rating WAGE changes reported for the month ending March 15 are again without general significance, being of importance to individual establishments rather than to any industry as a whole.

Wage-rate increases were reported by 41 establishments in 21 industries and wage-rate decreases by 27 establishments in 9 industries.

The increases averaged 7.9 per cent and affected 3,184 employees, or 21 per cent of the employees in the establishments concerned.

The decreases averaged 6.9 per cent and affected 6,913 employees, or 41 per cent of the employees in the establishments concerned.

WAGE ADJUSTMENT OCCURRING BETWEEN FEBRUARY 15 AND MARCH 15, 1925

	Establis	shments		ofincrease crease in ites	Emp	ployees affe	ected
A COST BOOK I COST	1 (44)	Num-				Per cent of em- ployees	
Industry	Total num- ber re- porting	ber re- porting increase or de- crease in wage rates	Range	Average	Total number	In estab- lishments reporting increase or de- crease in wage rates	
100 100 100	4.2	- 1-7-71	Incr	eases	hullery manual	(India Sea	office y
Confectionery Lice cream Baking Cotton goods Silk goods Woolen and worsted goods Clothing, women's Lron and steel Foundry and machine-shop products Machine tools Stoves Furniture Leather Boots and shoes Paper and pulp Printing, book and job Printing, newspaper Fertilizers Chewing and smoking tobacco and snuff Automobiles Electrical machinery, apparatus, and supplies	341 200 190 190 217 732	1124 221115 22231113315 1221	7 10 3-5 1.8-10 1.5 5 10 2.5 3-10 8-10 3-16 5-10 10 5.5 3 16.6-25.8 4 9-25	7. 0 10. 0 4. 3 3. 7 1. 5 5. 0 10. 0 2. 5 7. 6 8. 7 8. 4 9. 8 10. 0 5. 5 3. 0 19. 0 4. 0 12. 7	21 6 30 592 150 41 47 40 119 14 60 482 40 13 32 191 96 555 23 613	30 75 17 61 23 5 92 7 20 11 15 92 10 16 4 9 46 77	000000000000000000000000000000000000000
Cotton and Asia	1 101	1 1 1 1 1 1		reases	701	100	a)
Cotton goods_ Iron and steel	341 217 133 390 234 94 338 214 72	2 9 2 2 7 2 1 1 1	7.7-10 1.5-4.5 7.4-10 10 1.5-10 9-12.5 10 5	9. 4 2. 3 9. 0 10. 0 8. 8 9. 9 10. 0 5. 0	761 1,761 1,950 504 910 121 81 800 25	38 25 40 98 100 44 15	(a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c

<sup>1</sup> Less than one-half of 1 per cent.

Indexes of Employment and Pay-Roll Totals in Manufacturing Industries

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Metal

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INDEX numbers of employment and of pay-roll totals for March, 1925, for each of the 52 industries surveyed by the Bureau of Labor Statistics, together with general indexes for the combined 12 groups of industries, appear in the following table in comparison with index numbers for February, 1925, and for March, 1924.

The general index of employment for March, 1925, is 92.3 and the

general index of pay-roll totals is 96.6.

INDEX OF EMPLOYMENT AND OF PAY-ROLL TOTALS IN MANUFACTURING INDUS. TRIES, MARCH, 1925, AS COMPARED WITH FEBRUARY, 1925, AND MARCH, 1924

[Monthly average, 1923-100]

TOTAL TOTAL STATE	19	924		19	025	
Industry	Me	arch	Febr	uary	Ma	arch
and and the same of the same o	Employ- ment	Pay-roll totals	Employ- ment	Pay-roll totals	Employ- ment	Pay-roll totals
General index	96.4	99.0	91.6	95.1	92.3	96.6
Food and kindred products  Slaughtering and meat packing  Confectionery Ice cream Flour Baking Sugar refining, cane	96. 5 89. 2 89. 3 95. 5	98.6 95.5 94.1 91.0 99.4 104.0 106.0	92.8 90. 2 85. 1 81. 7 95. 7 99. 6 98. 3	94.6 91.2 91.5 83.2 98.7 99.8 99.6	90.1 85.2 82.8 84.5 90.6 98.3 105.4	92.6 85.1 91.6 88.3 92.3 100.9 110.2
Textiles and their products  Cotton goods  Hosiery and knit goods Silk goods Woolen and worsted goods Carpets and rugs Dyeing and finishing textiles Clothing, men's Shirts and collars Clothing, women's Millinery and lace goods	99. 8 100. 3 98. 4 95. 9 103. 0 94. 8 98. 1 94. 8 104. 2 93. 4	96.9 89.9 103.6 99.5 94.5 107.4 94.3 96.2 94.8 106.5	92.2 88. 2 96. 5 98. 6 94. 0 97. 7 101. 8 90. 6 85. 6 90. 9	96.1 88.2 104.1 105.6 97.2 97.3 107.9 91.0 87.4 102.1 96.6	92.4 87.8 98.4 100.4 91.9 98.5 102.8 89.0 86.4 93.0 94.8	97.0 88.8 107.5 109.5 92.6 98.7 110.1 90.0 90.8 104.8
Iron and steel and their products Iron and steel Structural ironwork Foundry and machine-shop products Hardware Machine tools.	106. 3 92. 2 87. 1 98. 4 94. 1	99.5 113. 3 92. 8 87. 2 106. 4 97. 4	88.2 100. 0 87. 9 80. 2 92. 3 83. 5	98.1 105.3 93.0 82.2 98.7 88.6	88.8 100.6 88.4 81.0 92.9 82.9	94.6 105.8 93.7 83.6 99.2 87.7
Steam fittings and steam and hot-water heating apparatusStoves	99. 3 92. 5	107. 1 101. 1	95. 4 87. 3	103. 1 90. 7	95. 4 87. 5	102.7 91.8
Lumber and its products Lumber and sawmills Lumber, millwork Furniture	95. 3 102. 6	100.8 99.8 106.2 100.9	98.3 80.7 99.5 101.7	96.4 92.6 103.8 104.6	92.5 88. 5 99. 9 101. 6	97.9 94.6 103.7 105.7
Leather and its products	94.3	96.1 97. 5 95. 5	95.4 92.7 96.3	95.8 96.7 95.4	95.4 92.6 96.3	96.0 96.5 95.8
Paper and printing Paper and pulp Paper boxes Printing, book and job Printing, newspaper	96. 8 100. 5 102. 8	104.2 101. 2 105. 1 105. 2 105. 9	100.8 94. 2 99. 8 103. 7 104. 5	104.4 100.7 102.2 106.1 107.0	101.5 96. 6 98. 4 103. 4 105. 6	106.0 103.0 103.5 107.9 107.6
Chemicals and allied products Chemicals Fertilizers Petroleum refining	137 9	101.4 103.5 128.1 91.7	92.3 92.5 98.0 89.6	94.0 98.7 92.9 89.2	99.0 93.5 137.4 89.4	100.3 100.5 128.3 92.2
Stone, clay, and glass products  Cement  Brick, tile, and terra cotta  Pottery Glass	99. 0 94. 1 111. 1	105.2 102.5 98.1 121.6 107.0	110.3	98.0 89.8 90.5 118.3 100.9	110.0	101.9 94.4 98.2 119.4 101.8

[1092]

INDEX OF EMPLOYMENT AND OF PAY-ROLL TOTALS IN MANUFACTURING INDUSTRIES, MARCH, 1925, AS COMPARED WITH FEBRUARY, 1925, AND MARCH, 1924—Con.

[Monthly average, 1923=100]

199	24		19	25	
Ma	reh	Febr	uary	March	
Employ-	Pay-roll	Employ-	Pay-roll	Employ-	Pay-roll
ment	totals	ment	totals	ment	totals
105.4	106.9	90.9	88.1	95.0	94.5
105.4	106.9	90.9	88.1	95.0	94.5
95.4	98.0	92.8	89.8	93.6	90.4
106. 1	110.9	99.3	106. 3	93.2	98.3
94. 5	96.5	92.0	87. 3	93.6	89.5
95.9	96.5	87.3-	92.3	89.9	95.6
111. 6	113. 3	91. 1	97.0	97. 6	105. 0
94. 6	101. 3	82. 6	87.3	88. 6	96. 3
89. 1 85. 9	90. 3	86. 9 85. 1	90. 7	89. 2 85. 1	94. 0 89. 7
95.7	99.2	92.1	96.1	93.2	98.1
96.0	102.8	90.4	97.9	93.6	102. 6
102. 1 101. 5 79. 9 95. 5	108. 4 104. 8 75. 6 99. 1	90. 0 97. 6 88. 2 106. 1	94. 8 104. 2 96. 7 109. 8	89. 6 97. 2 86. 4 107. 9	94. 4 106. 3 93. 5 112. 7 94. 4
	Ma Employment 105.4 105.4 106.1 94.5 95.9 111.6 94.6 89.1 85.9 95.7 96.0	ment         totals           105.4         106.9           105.4         106.9           95.4         98.0           106.1         110.9           94.5         96.5           111.6         113.3           94.6         101.3           89.1         90.3           85.9         86.0           95.7         99.2           96.0         102.8           101.5         104.8           79.9         75.6           96.5         99.1	March         February           Employment         Pay-roll totals         Employment           105.4         106.9         90.9           105.4         106.9         90.9           95.4         98.0         92.8           106.1         110.9         90.3           94.5         96.5         92.0           95.9         96.5         87.3-           111.6         113.3         91.1           94.6         101.3         82.6           89.1         90.3         86.9           85.9         86.0         85.1.           95.7         99.2         92.1           96.0         102.8         90.4           101.5         104.8         97.6           79.9         75.6         88.2           95.5         99.1         106.1	March         February           Employment         Pay-roll totals         Employment         Pay-roll totals           105.4         106.9         90.9         88.1           105.4         106.9         90.9         88.1           95.4         98.0         92.8         89.8           106.1         110.9         90.3         106.3           94.5         96.5         92.0         87.3           95.9         96.5         87.3-         92.8           111.6         113.3         91.1         97.0           94.6         101.3         82.6         87.3           89.1         90.3         86.9         90.7           85.9         86.0         85.1         89.5           95.7         99.2         92.1         96.1           96.0         102.8         90.4         97.9           102.1         108.4         90.0         94.8           101.5         104.8         97.6         104.2           79.9         75.6         88.2         96.7           95.5         99.1         106.1         109.8	March         February         Ma           Employ-ment         Pay-roll totals         Employ-ment         Pay-roll totals         Employ-ment           105.4         106.9         90.9         88.1         95.0           105.4         106.9         90.9         88.1         95.0           95.4         98.0         92.8         89.8         93.6           106.1         110.9         90.3         106.3         93.2           94.5         96.5         92.0         87.3         93.6           95.9         96.5         87.3         92.3         89.9           111.6         113.3         91.1         97.0         97.6           94.6         101.3         82.6         87.3         88.6           89.1         90.3         86.9         90.7         89.2           85.9         86.0         85.1         89.5         85.1           95.7         99.2         92.1         96.1         93.2           95.7         99.2         92.1         96.1         93.2           102.1         108.4         90.0         94.8         89.6           102.1         104.8         97.6         104.2<

The following tables show the general index of employment in manufacturing industries from June, 1914, to March, 1925, and the general index of pay-roll totals from July, 1922, to March, 1925.

GENERAL INDEX OF EMPLOYMENT IN MANUFACTURING INDUSTRIES, JUNE, 1914, TO MARCH, 1925

[Monthly average, 1923-100]

Month	1914	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
January		91. 9	104. 6	117. 0	115. 5	110. 1	116. 1	76. 8	87. 0	98. 0	95. 4	90. (
February		92. 9	107.4	117. 5	114. 7	103. 2	115. 6	82. 3	87.7	99. 6	96. 6	91 (
March		93. 9	109.6	117. 4	116. 5	104. 0	116. 9	83. 9	83. 2	101.8	96. 4	92.3
April		93. 9	109. 0	115. 0	115. 0	103. 6	117. 1	84.0	82. 4	101. 8	94. 5	
May		94. 9	109. 5	115. 1	114.0	106. 3	117.4	84. 5	84. 3	101.8	90.8	
une	98. 9	95. 9	110. 0	114.8	113. 4	108. 7	117. 9	84. 9	87. 1	101. 9	87. 9	
luly	95. 9	94. 9	110. 3	114. 2	114. 6	110. 7	110.0	84. 5	86. 8	100.4	84.8	
August	92.9	95. 9	110.0	112.7	114. 5	109. 9	109.7	85. 6	88. 0	99.7	85. 0	
September	94. 9	98. 9	111.4	110.7	114. 2	112.1	107. 0	87.0	90. 6	99.8	86. 7	
October	94.9	100.8	112.9	113. 2	111. 5	106, 8	102 5	88. 4	92, 6	99. 3	87. 9	
November	93. 9	103, 8	114. 5	115. 6	113. 4	110.0	97.3	89. 4	94. 5	98. 7	87. 8	
December	92.9	105. 9	115. 1	117. 2	113. 5	113. 2	91.1	89. 9	96, 6	96. 9	89. 4	

GENERAL INDEX OF PAY-ROLL TOTALS IN MANUFACTURING INDUSTRIES, NOVEM-BER, 1915, TO MARCH, 1925

[Monthly average, 1923-100]

Month	1915	1916	1917	1918	1919	1920	1921	1922	1923	1924	1925
anuary.		52. 1	69. 8	79. 6	104. 2	126. 6	80. 6	71. 5	91.8	94. 5	90.0
ebruary		57.8	70. 5	79.8	95. 0	124.8	82.4	76. 7	95. 2	99. 4	95. 1
March		60.0	73. 6	88. 2	95. 4	133. 0	83. 3	74. 2	100.3	99. 0	96, 6
pril		59. 7	69. 4	88.8	94.5	130.6	82.8	72.6	101.3	96. 9	
May	0210	62. 1	75. 8	94.5	96. 7	135. 7	81.8	76. 9	104.8	92. 4	
une		62. 5	76. 1	94.3	100. 2	138. 0	81. 0	82.0	104.7	87. 0	
uly		58.7	73. 1	97.5	102.5	124. 9	76. 0	74.1	99. 9	80.8	
lugust.		60.9	75.0	105. 3	105. 3	132, 2	79.0	79. 3	99.3	83. 5	
eptember		62.9	74.4	106.6	111.6	128.2	77.8	82.7	100.0	86. 0	
October	Translate I	65. 5	82. 2	110.3	105. 5	123. 0	76.8	86. 0	102.3	88. 5	1000
November	53. 8	69. 2	87.4	104.1	111.3	111.3	77.2	89. 8	101.0	87. 6	
December	56. 0	71.0	87.8	111.2	121.5	102.4	81.5	92. 9	98. 9	91.7	

# Recent Employment Statistics

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# Public Employment Offices

### Illinois

THE March, 1925, issue of The Labor Bulletin, issued by the Illinois Department of Labor, states that the ratio of applicants to jobs in February, 1925, showed an improvement over the previous month, there being only 174 persons registered for each 100 positions, as compared with 187.7 in the preceding month. A further improvement was noted in March, according to a statement issued by the chief statistician of the department's general advisory board, the ratio of applicants per 100 jobs having fallen to 161.

# Iowa

The work of the Iowa public employment offices for February, 1925, is reported as follows in the Iowa Employment Survey for that month:

# PUBLIC EMPLOYMENT SERVICE ACTIVITIES IN IOWA FOR FEBRUARY, 1925

Be the reform to water leading a set to see the second and second	Registra- tion for jobs	Jobs offered	Number of persons referred to positions	Number of persons placed in employment
Men	4, 054 1, 458	873 848	877 795	855 751
Total	5, 512	1, 721	1, 672	1, 606

### Massachusetts

The Department of Labor and Industries of Massachusetts has furnished the following data on operations of the four public employment offices of that State in February, 1924 and 1925.

# OPERATIONS OF MASSACHUSETTS PUBLIC EMPLOYMENT OFFICES, FEBRUARY, 1924 AND 1925

Month and year	Number of working days	Applica- tions for positions	Help wanted	Persons referred to positions	Persons reported placed in employ- ment
February, 1924	24	29, 512	2, 538	3, 311	2, 141
	23	36, 682	2, 223	2, 934	1, 898

### Minnesota

During the first three months of 1925, the State employment service of Minnesota placed in employment 13,941 persons, as compared with 13,044 in the same period of 1924. The following table, furnished by the Industrial Commission of Minnesota, reviews the employment activities of the service during the first quarter of 1924 and 1925:

OPERATIONS OF MINNESOTA STATE EMPLOYMENT SERVICE, FIRST QUARTER OF 1924 AND 1925

one of the Stalescity employer.	19	24	192	25
Month and sex	Persons referred to positions	Persons reported placed in employ- ment	Persons referred to positions	Persons reported placed in employ- ment
Men: January February March	2, 898 2, 840 3, 544	2, 255 2, 243 2, 855	4, 283 2, 801 2, 786	3, 890 2, 514 2, 382
Total	9, 282	7, 353	9, 870	8, 786
Women: January February March	1, 881 2, 261 2, 526	1, 625 1, 950 2, 116	2, 261 1, 725 1, 918	1, 950 1, 518 1, 687
Total	6, 668	5, 691	5, 904	5, 155
Farm labor:  January February March	206 258 525	139 152 325	235 187 380	179 170 242
Total	989	616	802	591

<sup>&</sup>lt;sup>1</sup>These figures are included among the placements of "men" and "women" given above.

The commissioner in charge of this branch of works states that notwithstanding a surplus of labor of all other kinds the employment offices are experiencing difficulty in filling requests for farm workers. "Unless this prejudice against farm work is overcome alarming results are liable to follow as the season advances."

### North Carolina

The thirty-fourth report of the Department of Labor and Printing of North Carolina contains the following data as to the activities of the public employment bureau of that department from October 1, 1923, to October 31, 1924:

ACTIVITIES OF NORTH CAROLINA PUBLIC EMPLOYMENT BUREAU, OCTOBER 1, 1923, TO OCTOBER 31, 1924

Sex, and kind of worker	Number of registra- tions	Help wanted	Number referred to posi- tions	Number reported placed in em- ployment
Males: Unskilled Skilled Clerical and professional	19, 056 7, 471 3, 176	20, 889 5, 932 1, 366	18, 330 6, 310 1, 708	17, 134 5, 305 1, 140
Total	29, 703	28, 187	26, 348	23, 579
Females: Domestic Industrial Clerical and professional	5, 984 520 2, 506	5, 859 259 1, 336	6, 462 328 1, 428	5, 164 255 1, 221
Total	9, 010	7, 454	8, 218	6, 640
Grand total	38, 713	35, 641	34, 566	30, 219

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### Ohio

The Department of Industrial Relations of Ohio furnished the following report on the operations of the State-city employment service of that State in March, 1925:

OPERATIONS OF STATE-CITY EMPLOYMENT SERVICE OF OHIO, MARCH, 1925

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Group	Number of applicants	Number of persons applied for	Persons referred to positions	Persons reported placed in em- ployment
Males: Nonagricultural Farm and dairy	37, 910 546	11, 390 307	11, 569 337	10, 291 216
Total, males	38, 456	11, 697	11, 906	10, 507
Females	17, 017	8, 802	8, 419	7, 343
Grand total	55, 473	20, 499	20, 325	17,850

## Oklahoma

The number of placements made by the Oklahoma public employment offices in February, 1925, compared with the preceding month and February, 1924, are reported as follows in the Oklahoma Labor Market for March 15, 1925:

ACTIVITIES OF OKLAHOMA PUBLIC EMPLOYMENT OFFICES IN JANUARY AND FEBRUARY, 1925, AND FEBRUARY, 1924

Industry	February,	January,	February,
	1924	1925	1925
Agriculture	202	134	264
	105	54	110
	8	1	4
	25	55	45
	1, 261	991	1, 146
Miscellaneous	1, 387	1,051	1, 47
Total	2, 988	2, 286	3,04

# Wisconsin 1

The operations of the Federal-State-municipal employment service of Wisconsin in March, 1925, as compared with March, 1924, are shown briefly in the table given below:

ACTIVITIES OF FEDERAL-STATE-MUNICIPAL EMPLOYMENT SERVICE OF WISCONSIN, MARCH, 1924, AND MARCH, 1925

108 2   1048 A   100 A   116 A   100 A		1	March, 1924			March, 1925			
	N6.2E	tem	1077.62	Males	Females	Total	Males	Females	Total
Registrations				8, 346 7, 411 7, 226 5, 932	3, 962 3, 335 3, 345 2, 473	12, 308 10, 746 10, 571 8, 405	8, 438 6, 784 6, 678 5, 191	4, 258 3, 632 3, 702 2, 661	12, 696 10, 416 10, 386 7, 855

<sup>&</sup>lt;sup>1</sup> Wisconsin. Industrial Commission. Mimeographed report.

# State Departments of Labor

## California

THE following figures from the California Labor Market Bulletin for March, 1925, show changes in the number of employees and in weekly pay rolls in 697 California establishments in February, 1925, compared with the preceding month:

PER CENT OF CHANGE IN NUMBER OF EMPLOYEES AND IN TOTAL AMOUNT OF WEEKLY PAY ROLL IN 697 CALIFORNIA ESTABLISHMENTS BETWEEN JANUARY AND FEBRUARY, 1925

		Emp	loyees	Weekly	pay roll
Industry	Number of firms reporting	Number in Feb- ruary, 1925	Per cent of increase (+) or decrease (-), as compared with January, 1925	Amount in Feb- ruary, 1925	Per cent of increase (+) or decrease (-), as compared with January, 1925
Stone, clay, and glass products:  Miscellaneous stone and mineral products  Lime, cement, plaster  Brick, tile, pottery  Glass	12 7 19 4	1, 682 1, 784 2, 965 885	-2.3 -5.7 +.5 -10.9	\$48, 670 61, 217 79, 268 25, 633	+6.9 +1.5 +1.8 -13.2
Total	42	7,316	-3.2	214, 788	+.7
Metals, machinery, and conveyances: Agricultural implements. Automobiles, including bodies and parts. Brass, bronze, and copper products Engines, pumps, boilers, and tanks. Iron and steel forgings, bolts, muts, etc. Structural and ornamental steel Ship and boat building and naval repairs. Tin cans. Other iron foundry and machine-shop products. Other sheet-metal products Cars, locomotives, and railway repair shops.	10 13 7 14 6 3 64 22 16	314 3, 283 879 1, 886 2, 110 3, 578 4, 420 1, 916 7, 028 1, 604 8, 927	+9.8 +3.0 +6.8 +8.1 -7 -1.0 -5.6 +6.3 -1.4 +2.6 +.1	9, 851 104, 505 28, 099 60, 873 69, 478 114, 980 153, 850 48, 406 210, 572 48, 616 262, 618	+15.2 +10.2 +8.4 +11.1 +6.3 +9.1 -7.9 +4.9 +5.8 +5.3
Total	174	35, 945	+.2	1, 111, 848	+4.6
Wood manufactures: Sawmills and logging camps Planing mills, sash and door factories, etc Other wood manufactures	22 44 44	10, 001 11, 058 4, 056	-3.6 -4.1 +3.6	261, 709 303, 699 113, 725	-7. 9 -1. 8 +5. 7
Total	110	25, 115	-2.7	679, 133	-3.1
Leather and rubber goods: Tanning Finished leather products Rubber products Total	10 7 6	1, 066 585 2, 427 4, 078	(1) +1.0 +2.0 +1.3	29, 239 11, 832 69, 664 110, 735	+1.4 +4.2 +3.1
Chemicals, oils, paints, etc.: Explosives Mineral oil refining Paints, dyes, and colors Miscellaneous chemical products	4 9 6 12	496 11, 105 414 2, 312	(1) +1.9 +5.9 3	15, 251 428, 754 10, 818 66, 404	+5. 8 +5. 8 +6. 6 +3. 7
Total	31	14, 327	+1.6	521, 227	+5.3
Printing: Paper boxes, bags, cartons, etc. Printing. Publishing. Other paper products.	9 35 13 10	2, 050 1, 908 3, 309 948	8 -1.1 +2.6 6	51, 033 71, 075 119, 273 23, 508	+.1 -1.0 -2.1 +6.0
Total	67	8, 215	+.5	264, 889	1

<sup>1</sup> Less than one-tenth of 1 per cent.

PER CENT OF CHANGE IN NUMBER OF EMPLOYEES AND IN TOTAL AMOUNT OF WEEKLY PAY ROLL IN 697 CALIFORNIA ESTABLISHMENTS BETWEEN JANUARY AND FEBRUARY, 1925—Continued

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A COMPANY OF THE PROPERTY OF T	di ni	Emp	loyees	Weekly pay roll		
Industry	Number of firms reporting	Number in Feb- ruary, 1925	Per cent of increase (+) or decrease (-), as compared with January, 1925	A mount in Feb- ruary, 1925	Per cent of increase (+) or decrease (-), as compared with January, 1925	
Textiles: Knit goods Other textile products		789 1, 208	-4.7 -5.2	\$18, 946 24, 672	-0. +2.	
Total	14	1, 997	-5.0	43, 618	+1.	
Clothing, millinery, and laundrying:  Men's clothing.  Women's clothing.  Millinery.  Laundries, cleaning, and dyeing.	13	2, 601 1, 019 527 3, 477	+6.6 +1.2 +26.1 +.2	56, 994 20, 467 9, 927 82, 141	+7. +3. +23.	
Total	65	7, 624	+4.0	169, 529	+3.	
Food, beverages, and tobacco:  Canning and preserving of fruits and vegetables Canning and packing of fish Confectionery and ice cream Groceries, not elsewhere specified Bread and bakery products Sugar Slaughtering and meat products Cigars and other tobacco products Beverages Dairy products Flour and grist mills Ice manufacture Other food products  Total	9 31 6 22 6 14 4 8 10 8	2, 511 951 1, 780 580 3, 606 3, 137 3, 001 983 457 1, 766 1, 208 1, 078 927	-11. 2 -27. 3 +. 3 +. 3 +. 5 +. 4 +15. 1 -2. 4 -7. 6 +10. 7 +1. 0 -9. 5 +3. 2 +1. 6	53, 614 11, 361 47, 045 13, 382 107, 443 97, 262 87, 298 17, 208 9, 681 63, 510 31, 739 34, 325 20, 174	-632 +7. +1. +. +22 -115 +8. +51.	
Water, light, and power	14	8, 656 1, 878	$\begin{array}{c c} -6.3 \\ +3.1 \end{array}$	259, 900 43, 580	-3. +7.	
Total, all industries	697	137, 136	9	4, 013, 289	+1.	

# Illinois

The following table, taken from the March, 1925, issue of The Labor Bulletin, published by the Illinois Department of Labor, shows the change in the number of employees in February, 1925, as compared with January, 1925, and February, 1924:

CHANGES IN VOLUME OF EMPLOYMENT IN ILLINOIS IN FEBRUARY, 1925, AS COM-PARED WITH JANUARY, 1925, AND FEBRUARY, 1924, BY INDUSTRY

一 情報 問題 型	Februa	ry, 1925	Per cent of change		
Industry	Number of firms reporting	Number of employees	January, 1925, to February, 1925	February, 1924, to February, 1925	
Stone, clay, and glass products:  Miscellaneous stone and mineral products.  Lime, cement, and plaster.  Brick, tile, and pottery.  Glass.	7	1, 490 424 4, 829 4, 377	+1.6 -2.1 +4.2 +3.6	-19.5 -6.7 -6.4 6	
Total	79	11, 120	+3.4	-6.1	
Metals, machinery, and conveyances: Iron and steel Sheet metal work and hardware Tools and cutlery Cooking, heating, and ventilating apparatus Brass, copper, zinc, Babbitt metal Cars and locomotives Automobiles and accessories Machinery Electrical apparatus Agricultural implements Instruments and appliances Watches, watch cases, clocks, jewelry	34 16 24 20 15 30 50 30 28	38, 141 9, 024 1, 757 4, 772 2, 790 13, 051 8, 786 16, 067 35, 347 7, 754 1, 925 7, 579	+2.9 +8.6 -3.2 +6.7 +1.5 +1.4 +11.6 +2.4 -2.4 -2.9 +2.4 +.4	+. 8 +1. 7 -10. 7 -10. 2 +11. 0 -18. 4 -10. 0 -27. 7 -7. 0 -21. 8 +7. 3	
Total	383	146, 993	+2.0	-10.6	
Wood products: Sawmill and planing mill products Furniture and cabinet work Pianos, organs, and other musical instruments Miscellaneous wood products Household furnishings	48 17 23 7	2, 604 7, 060 3, 130 2, 719 631	4 +6.1 -1.8 +.4 +.6	1 -2.7 -15.2 -8.9 +5.6	
Total	129	16, 144	+2.3	-5. 9	
Furs and leather goods: Leather Furs and fur goods Boots and shoes Miscellaneous leather goods	8	2, 019 47 11, 549 1, 581	+3.8 -14.5 +1.1 +.6	2 13.4 +14.0 16.8	
Total	53	15, 196	+1.3	+8.1	
Chemicals, oils, paints, etc.: Drugs and chemicals Paints, dyes, and colors Mineral and vegetable oil Miscellaneous chemical products	21 25 8 8	2, 231 2, 762 3, 608 3, 849	+1. 6 +4. 1 +3. 1 +3. 8	-5.9 +8.7 -4.0 -6.5	
Total	62	12, 450	+3.3	-2.7	
Printing and paper goods: Paper boxes, bags, and tubes. Miscellaneous paper goods. Job printing. Newspapers and periodicals. Edition bookbinding.	39 16 79 12 7	3, 935 1, 102 8, 844 3, 675 1, 336	9 +1.0 +.1 +1.2 -4.8	+2.1 +2.2 •+4.6 +4.6	
Total	153	18, 892	2	+2.0	
The transfer of the state of th				-	
Cotton goods Knit goods, cotton and woolen hosiery Thread and twine	7 9 7	565 2, 789 702	+7.6 +.4 +6.4	-21. §	
Total.	23	4, 056	+2.3	-8.2	

CHANGES IN VOLUME OF EMPLOYMENT IN ILLINOIS IN FEBRUARY, 1925, AS COM. PARED WITH JANUARY, 1925, AND FEBRUARY, 1924, BY INDUSTRY—Continued

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the Illinois Department of Labor	Februs	ry, 1925	Per cent	of change
Industry Published has	Number of firms reporting	Number of employees	January, 1925, to February, 1925	February, 1924, to February, 1925
Clothing, millinery, and laundering:  Men's clothing Men's shirts and furnishings Overalls and work clothing Men's hats and caps Women's clothing Women's clothing Women's underwear and furnishings Women's hats Laundering, cleaning, and dyeing	9 4 12 2 2 21 9 7 38	11, 985 974 832 71 1, 310 544 1, 095 2, 863	+2.8 +22.1 +1.2 +129.0 +5.6 +16.7 +3.1 +1.0	-8. -6. -9. -1. -9. -2. -1. +8.
Total	102	19, 674	+4.1	-6.
Food, beverages, and tobacco: Flour, feed, and other cereal products Fruit and vegetable canning and preserving Groceries not elsewhere classified Slaughtering and meat packing Dairy products Bread and other bakery products Confectionery Beverages Cigars and other tobacco products Manufactured ice Ice cream	22 15 28 19 11 18 21 19 14 22	969 436 4, 866 22, 722 3, 499 2, 711 2, 428 1, 159 1, 249 1,86 648	+4.5 +23.5 +3.8 -5.4 +.1 +2.7 +6.8 +1.7 -2.9 -6.1 +12.5	-12 -7. +1. -13. +2. -7. -3. -12. -14. -15.
Total	204	40, 873	-1.8	-9.
Total, all manufacturing industries.	1, 188	285, 398	+1.5	-7.
Trade—wholesale and retail:  Department stores  Wholesale dry goods  Wholesale groceries  Mail-order houses	27 6 6 5	2, 981 571 768 17, 244	-5.6 -1.2 +1.7 +5.2	-3. -35. -3.
Total	44	21, 564	+3.3	-3.
Public utilities: Water, light, and power Telephone Street railways Railway car repair shops	6 9 24 26	13, 632 26, 581 26, 064 12, 642	-4.5 3 -1.0 -2.9	-3. +3. -2. -2.
Total	65	78, 919	-1.7	+.
Coal mining	51	14,612	-4.9	-4.7
Building and contracting: Building construction Road construction Miscellaneous contracting	118 13 26	5, 005 89 991	+3.9 -23.9 +16.2	-21. +35. +25.
Total	157	6, 085	+5.2	-9.
Grand total, all industries	1, 505	406, 578	+.8	-6.

In a review of the industrial situation in March, 1925, released on April 10, 1925, the chief statistician of the general advisory board to the Illinois Department of Labor makes the following statement:

A. mixed trend and a "spotty" condition are revealed as the outstanding characteristics of present industrial operations in Illinois from the labor market survey in March by the Illinois State Department of Labor. Although the majority of plants and industries continued the upward trend, which was begun near the close of last year, the minority of industries, in which are represented some of the most important employers, have been laying off help rather freely. As a result, the aggregate of factory employment fell 1.1 per cent during the month of March, throwing about 8,000 workers out of their jobs. It appears that of the 31,000 workers put back to work in the preceding 3 months, 23,000 are still on the pay rolls of employers.

## Iowa

The Bureau of Labor of Iowa furnishes the report given below showing percentage changes in the number of employees in specified industries in Iowa in February, 1925, as compared with the previous month.

CHANGES IN VOLUME OF EMPLOYMENT IN IOWA, JANUARY TO FEBRUARY, 1925

Serget'	russ	pay	oyees on roll Feb- ry, 1925			pay	oyees on roll Feb- y, 1925
Industry	re-		Number of firms re- port- ing	Num- ber	Per cent of in- crease (+) or decrease (-) as com- pared with January, 1925		
Food and kindred products: Meat packing	8	6, 729	-6.8	Leather products: Shoes	3	338	-4.0
Flour and mill products Bakery products	7	1, 216 127 776	+3.8 -4.5 +.4	Fur goods and tanning, also leather gloves	8 2	350 109	+8.7 -6.8
Confectionery Poultry, produce, but-	9	442	-2.2	Total	13	797	+1.1
ter, etc	. 8	754	-10, 1	Paper products, printing	Section 1		
Other food products,	3	823	-2.4	and publishing: Paper and paper prod-	Takin	Vasa	
coffee, etc	6	472	2	ucts Printing and publishing	5 13	338 2, 440	+3.4 +1.7
Total	47	11, 339	-4, 5	Total	18	2,778	+1.9
Textiles: Clothing, men's	11	1,008	+2.9	Patent medicines	8	425	-3.5
Millinery Clothing, women's, and	2	176	-7.4	Stone and clay products:			ma a sala
woolen goods	7	727	+6. 2 +7. 4	Cement, plaster, gyp- sum. Brick and tile (clay)	6 12	944 529	-8.3 +37.0
Buttons, pearl	8	912	+7.9	Marble and granite, crushed rock and	12	023	731.0
Total	31	3, 300	+5.1	stone	3	63	+1.6
Iron and steel work: Foundry and machine			t th	Total	21	1, 536	+4.0
shops Brass and bronze prod-	30	2, 967	+5.1	Tobacco, cigars	4	348	+1.8
ucts, plumbers' sup- plies	5	533	+4.3	Railway car shops	5	3, 050	-2.0
Automobiles, tractors, engines, etc.	5	1,719	+8.2	Various industries: Auto tires	3	158	-15.1
Furnaces	5	367	+6.7	Brooms and brushes	4	180	-2.7
Pumps	4	372	+5.1	Laundries Mercantile	5 9	228 3, 447	+1.3
ments. Washing machines.	8 7	924	+13.0 +5.8	Public service	2	237	-2, 1
Total.	64	8, 155	+6.1	Wholesale houses Other industries		1, 283 1, 318	+. +9.
Lumber products:	-			Total	-	6, 851	+1.5
Millwork, interiors, etc. Furniture, desks, etc.	15	2, 260	+2.9				
Refrigerators	8	851 213	+13.3 +18.3	Grand total	303	42, 244	+1.0
Coffins, undertakers' goods Carriages, wagons.	5	175	-3.9		1		
Carriages, wagons, truck bodies	5	166	+.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
* Total	36	3, 665	+5.7				

# Maryland

The Commissioner of Labor and Statistics of Maryland presents the following report on volume of employment in Maryland in March, 1925, covering 52,071 employees with a total pay roll of \$1,216,841.

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COMPARISON OF EMPLOYMENT IN IDENTICAL ESTABLISHMENTS IN MARYLAND IN FEBRUARY AND MARCH, 1925

TO THE RESERVE OF THE PARTY OF	- 19	an indicate	Marc	h, 1925			
	Number	Employment				ay roll	
Industry	of estab- lishments reporting for both months	Number of em- ployees	Per cent of increase (+) or de- crease (-) as com- pared with February, 1925	Amount	Per cent of increase (+) or decrease (-) as compared with February, 1925		
Bakery Beverages and soft drinks Boots and shoes Boxes, paper and fancy Boxes, wooden Brass and bronze Brick, tile, etc Brick, tile, etc Brushes Canning and preserving Car building and repairing. Chemicals Clothing, men's outer garments Clothing, women's outer garments Confectionery Cotton goods Fertilizer Food preparations Foundry Furnishing goods, men's Furniture Glass Ide cream Leather goods Lithographing Lumber and planing Mattresses and spring beds Pianos Plumbers' supplies Printing Rubber tire manufacturing¹ Shipbuilding Shirts Silk goods Slaughtering and meat packing Stamping and enameled ware Tinware Tobacco Umbrellas Miscellaneous	99647635667684315712456494341113543548	518 185 1, 264 537 384 2, 599 899 1, 012 498 4, 447 1, 206 2, 304 1, 083 1, 073 2, 533 2, 533 2, 533 105 2, 357 2, 977 1, 107 1, 162 337 654 451 662 1, 210 909 1, 230 1, 444 2, 292 760 973 1, 261 2, 750 1, 081 1, 084 4, 011	+0.3 +8.8 -3.4 +1.8 +6.8 +6.8 +1.6 -5.9 +1.6 -1.1.5 +52.6 +2.9 -4.5 -4.5 +4.4 +2.9 +3.5 +1.6 +1.7 +1.9 +1.5 +1.6 +1.7 +1.5 +1.6 +1.5 +1.5 +1.5 +1.5 +1.5 +1.5 +1.5 +1.5	\$14, 987 5, 074 22, 625 8, 141 7, 357 61, 320 21, 724 19, 091 6, 663 150, 607 35, 136 56, 730 13, 846 14, 551 41, 317 17, 663 2, 832 63, 363 38, 913 22, 821 28, 059 10, 382 13, 023 13, 234 17, 652 2, 779 25, 684 33, 717 49, 106 132, 206 15, 163 11, 153 11, 924 26, 137 22, 923 56, 268 15, 380 5, 580 76, 553	+1. +7. -3. +6. +4. +2. +9. +5. -10. +2. +5. -4. +4. +76. -1. +6. +76. -1. +1. +1. +1. +1. +1. +1. +1. +1. +1. +		

<sup>1</sup> Pay-roll period one-half month.

### Massachusetts

A recent press release from the Department of Labor and Industries of Massachusetts shows the following changes in volume of employment in 944 establishments in that State from January to February, 1925:

NUMBER OF EMPLOYEES IN 944 MANUFACTURING ESTABLISHMENTS IN MASSACHUSETTS, WEEK INCLUDING OR ENDING NEAREST TO JANUARY 15 AND FEBRUARY 15, 1925

	Num- ber of estab- lish- ments	Number of employees on pay roll					
Industry		h-	February, 1925				
	report- ing	1925	On full time	On part time	Total		
Automobiles, including bodies and parts	23	2, 936	2, 553	421	2, 974		
Rockhinding	15	950	786	213	999		
Boot and shoe cut stock and findings	52	2, 143	1, 306	899	2, 205		
Boots and shoes	74	22, 795	12, 990	10, 493	23, 483		
Boxes Daper	25	2, 103	1, 292	874	2, 166		
Boxes, wooden packing	13	1, 215	1, 104	133	1, 237		
Bread and other bakery products	37	3, 317	3, 228	74	3, 302		
Carpets and rugs	5	3, 666	3, 748		3, 748		
road shops	4	3,046	3, 054		3, 054		
Clothing, men's	33	3, 434	2,842	832	3, 674		
Clothing, women's	29	1, 488	1, 348	253	1, 601		
Confectionery	13	3, 343	2, 627	619	3, 246		
Copper, tin, sheet iron, etc	17	921	928	mu - Libraria	928		
Cotton goods	. 54	43, 543	33, 170	10, 512	43, 682		
Cutlery and tools	23	4, 491	4, 119	403	4, 522		
Dyeing and finishing, textiles	6	6, 455	3, 147	3, 377	6, 524		
Electrical machinery, apparatus, and supplies	12	9, 642	2,605	7, 084	9, 689		
Foundry products		2, 734	1, 718	1, 066	2, 784		
Furniture		3, 276	2, 699	568	3, 267		
Hosiery and knit goods	.11	5, 345	2,762	2.764	5, 526		
Jewelry	37	2, 689	1, 696	986	2, 682		
Leather, tanned, curried, and finished	28	4, 894	3, 788	1, 219	5, 007		
Machine-shop products	35	5, 416	3, 863	1, 672	5, 535		
Machine tools	23	1, 504	929	611	1, 540		
Musical instruments		1, 383	950	412	1, 362		
Paper and wood pulp	21	6, 100	5, 142	1, 030	6, 172		
Printing and publishing, book and job	42	3, 346	2, 370	1,003	3, 373		
Printing and publishing, newspaper		2,173	2, 171	2,000	2, 171		
Rubber footwear	3	8, 136	7, 150	1, 366	8, 516		
Rubber goods	9	2,954	2, 884	50	2, 934		
Rubber tires and tubes	3	1, 298	1, 280	84	1, 364		
Silk goods	12	4, 097	1, 658	2, 523	4, 181		
Slaughtering and meat packing	5	1, 936	317	1, 524	1, 841		
Stationery goods	8	1, 469	1, 348	50	1, 398		
Stationery goods Steam fittings and steam and hot-water heating apparatus	8	1, 389	1,348	59	1, 407		
Staves and stave linings	5	1, 306	74	1, 689	1, 763		
Stoves and stove linings Textile machinery and parts.	16	5, 370	944	4, 435	5, 379		
Tobacco.	7	809	520	263	783		
Woolen and worsted goods	57	21, 325	10,776	10, 792	21, 568		
All other industries	91	24, 409	11, 826	12, 700	24, 526		
Total	944	228, 846	149, 060	83, 053	232, 113		

# New York

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The Department of Labor of New York has furnished the following report showing changes in the number of employees and amount of pay roll in certain manufacturing industries in that State in February, 1925, compared with February, 1924, and January, 1925:

CHANGES IN VOLUME OF EMPLOYMENT AND PAY ROLL IN SPECIFIED MANU. FACTURING INDUSTRIES IN NEW YORK STATE FROM FEBRUARY, 1924, AND JANUARY, 1925, TO FEBRUARY, 1925

	-1000 1000	Per cent of increase (+) or decrease (-				
	Industry	January, 1925, to February, 1925		February, 1924, to February, 1925		
MANTY PART OF	Mat NO CON Property	Employ- ment	Pay roll	Employ- ment	Pay roll	
Cement			-17.3	-19.2	-17.4	
Brick		-17.6	-4.7	-40.3	-44.9	
Pottery		+3.4	+3.9	-6.0	-13.2	
Glass	COLUMN TO THE REAL PROPERTY OF THE PARTY OF	-1.11	-2.7	-8.6	-8.7	
Pig iron and rolling r	mill products	+.1	9	-5.3	-6.3	
Structural and archit	ectural iron work	+.3	-3.6	-8.9	-12.9	
Hardware		+3.9	+3.0	-11.6	-8.0	
Stamped ware	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	+10.7		-22.3	-20.	
Cutlery and tools	LCO II MALE TO THE TOTAL CONTRACTOR OF THE PARTY OF THE P	+5.4	+7.6	-15.6	-14.9	
Steam and hot-water	heating apparatus	+4.3	+3.7	+8.4	+10.1	
Stoves		+12.3	+14.3	-29.1	-36.7	
	ents	+4.6	+3.4	-8.2	-5.3	
Electrical machinery.	. apparatus, etc.	7	6	-7.5	-8.8	
Foundry and machin	ne shops	+1.11	-3.9	7	+2	
Automobiles and par	ts	+4.41	+6.91	-18.9	-19.	
Car, locomotive, and	equipment factories	-3.61	-4.2	-6.9	-9.6	
Railway repair shops	2006 2 2 2000 2 2000	+11	+5.0	+.4	+.6	
Lumber, millwork	***************************************	+.3	1	-9.5	-5.1	
Lamper, sawmills	CARLO STATE OF THE	-1.31	-1.7	+7.0	+1.8	
Furniture and cabine	etwork	3	-2.5	+.3	+1.	
Furniture	GW OF K		-1.8	+2.8	+4.1	
Pianos organs and o	ther musical instruments	6	-5.0	-3.6	T1.	
Toother	ther musical instruments	-2.6	-2.1	-3.6	-2	
			+2.7	-1. 2	+3	
David and chemicals		+1.1	+.7	-8.4	+A	
Drugs and chemicals.		-20	-7.7	-10.9	-11.	
Petroleum remning	98	-2.0	-2.6	-10.9 -6.7	-11. -5.	
Printing powerspore	8	-1.3	8	-16.8	-a. -15.	
Printing, newspapers	b	-1.0	-4.3		(1)	
Printing, book and jo	0	3	14.0	5	1/	
Silk and silk goods		11.5	+4.0	-13.7	-6.	
Carpets and rugs		+1.5	+.4	+1.1	1.0	
Woolens and worsted	9	+11.0	+11.5	+5.8	+6.	
Cotton goods	- cooccessors and a second	-31.0	-37.1		-18.	
Cotton and woolen no	osiery and knit goodstextiles	+8.2	+8.4	-9.9	-13.	
Dyeing and naisning	textiles	-1.3	-8.0	3	+5.	
Men's clothing		+6.7	+7.8	-5.2	-3.	
Shirts and collars		+2.4	+6.9	-5.9	+.	
			+13.1	-8.0	-3.	
	***********		+1.1	-1.1	+3.	
Flour		-1.0	-3.9	+2.0	+5.	
Sugar refining		+40.4	+25.4	-10.9	-16.	
Slaughtering and mea	at products	-3.0	-5.6	-7.7	-8.	
Bread and other bake	ery products	-1.7	-5.6	-11.6	<b>—</b> 12.	
Confectionery and ice	cream	+3.0	-1.0	+9.1	+5.	
Cigars and other toba	acco products	-3.0	-16.4	-8.7	-16.	
Total		+1.8	+.6	-6.5	-5.	

<sup>1</sup> Less than one-tenth of 1 per cent.

# Oklahoma

According to the March 15, 1925, issue of the Oklahoma Labor Market, employment increased in 13 industries and decreased in 13, and the total pay rolls increased in 16 industries and decreased in 10 in February, 1925, as compared with the previous month, as shown by the following statistics:

CHANGES IN EMPLOYMENT AND PAY ROLLS IN 710 INDUSTRIAL ESTABLISHMENTS IN OKLAHOMA FROM JANUARY TO FEBRUARY, 1925

James to Pelicisty, Volume, rodge		February, 1925					
Support Lagrant Ranging to		Empl	loyment	Pay roll			
Industry	Number of plants	Num- ber of em- ployees	Per cent of change as com- pared with January, 1925	Amount	Per cent of change as com- pared with January, 1925		
Cottonseed-oil mills Food production:	13	414	+5.6	\$7,745	+4.8		
Bakeries Confections. Creameries and dairies. Flour mills. Ice and ice cream. Meat and poultry.	7 11 44 33	448 70 90 389 239 1,465	4 -23.9 +2.3 -10.0 +1.3 -3.5	11, 602 1, 319 2, 195 9, 100 6, 822 33, 358	+.3 -19.2 +3.0 -12.4 +1.2 +7.0		
Lead and zinc: Mines and mills Smelters	100	3, 370 2, 175	+1.2 -1.2	95, 583 57, 730	+. 2 +. 5		
Metals and machinery: Auto repairs, etc	29 38 16	1, 114 840 380	-5.4 +3.1 -13.0	39, 347 23, 739 8, 623	-11.9 +2.3 -18.2		
Oil industry: Production and gasoline extraction Refineries Printing, job work	123 66 24	3, 528 4, 865 268	+4.8 +4.9 -7.6	109, 205 148, 316 7, 753	+4.3 +4.3 -4.0		
Public utilities: Railroad shops Street railways Water, light, and power	6	1, 907 582 1, 043	+1.8 +1.2 +.6	51, 139 14, 775 26, 543	-2.2 9 1		
Stone, clay, and glass: Brick and tile Cement and plaster Stone Glass manufacturing	6	479 946 211 1,012	+190.3 -2.8 9 +11.7	6, 592 22, 563 3, 571 24, 803	+117. 2 +3. 4 +9. 5 +9. 9		
Textiles and cleaning: Textile manufacturing. Laundry and cleaning Woodworking:	9 52	248 1, 309	-9.5 -1.0	3, 764 22, 724	-18.3 -1.0		
Sawmills. Millwork, etc.	14 20	369 306	+12.5 -5.0	4, 671 8, 314	+18.9		
Total, all industries	710	28, 067	+2.2	751, 897	+1.4		

# Wisconsin

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The report given below, taken from the Wisconsin Labor Market for February, 1925, shows variations in employment and in pay rolls in various industries in Wisconsin from January 15 to February 15, 1925:

PER CENT OF CHANGE IN NUMBER OF EMPLOYEES AND IN TOTAL AMOUNT OF PAY ROLL IN VARIOUS INDUSTRIES IN WISCONSIN FROM FEBRUARY, 1924, AND JANUARY, 1925, TO FEBRUARY, 1925

	Per cent of increase (+) or decrease (-)					
Kind of employment	January to		February Februar	, 1924 to y, 1925 i		
Entropy County-Special	Employ- ment	Pay roll	Employ- ment	Pay roll		
Manual		212 1102				
Agriculture			-19.6			
Logging	+6.3					
Mining. Lead and zinc.	+12.1	+14.5	+38.1	+30.		
Iron	$+16.2 \\ +3.5$	+18. 4 +7. 2	+121.9 -26.3	+114		
Ironitone crushing and quarrying	-11.9	-1.2	-26. 3 -16. 4	-27.		
Manufacturing	+1.8	+6.4	-2.7	-17. -1.		
Stone and allied industries Brick, tile, and cement blocks	+1.4	+2.2	+5.3	+17.		
Brick, tile, and cement blocks	-2.2	+8.0	+8.5	+8.		
Stone finishing.	+2.2	+1.2	+4.6	+18.		
MetalPig iron and rolling-mill products	+3.0 +1.2	+9.0	-1.9	-3.		
Structural-iron work		$-1.1 \\ +3.2$	+2.2 -17.5	- 01		
Foundries and machine shops	+3.4	+6.1	-5.5	-25. -14.		
Railroad repair shops.	3	+1.1	+4.1	+2		
Stoves	+6.1	+39.6	-3.3	,-		
Aluminum and enamel ware	+4.0	+14.3	-1.7	+4.		
Machinery	+4.9	+5.3	-10.2	-14.		
Automobiles Other metal products	+3.3	+20. 2 +8. 6	+8.1	+17.		
Wood	+2.7	+10.6	-4.0	+3		
Sawmills and planing mills	+5.0	+15.8	-10.7	-7.		
Box factories	+.8	+15.9	-20.4	-20		
Panel and veneer mills Sash, door, and interior finish	+1.1	+7.5 +4.8	-2.5	+.		
Sash, door, and interior finish	+1.1	+4.8	+3.9	+6.		
Furniture Other wood products	+1.1	+9.4 +11.9	+3.8	+1.		
Rubber	+.5	+4.5	-3.0 +18.8	-3. +31.		
Leather	+1.6	+4.8	-4.4	+5.		
Tanning	+.6	+2.1	-5, 1	+9.		
Boots and shoes	+.6	+6.1	-1.0	+6.		
Other leather products	+5.9	+8.9	-9.5	-7.		
Paper	+.4	+2.4	-5.0	-4. -5.		
Paper and pulp mills	5	+2.0	-5.3 -6.6	-0.		
Paper boxes Other paper products	3	+7.3	-2.4	-3		
Textiles	+.5	+5.1	-14.1	-9.		
Hosiery and other knit goods	7	+3.5	-17.6	-20.		
Clothing	+2.4	+3.4	-6.4	+3		
ClothingOther textile productsFoods	+1.1	+14.7	-15.7	-2		
Foods	71.0	-1.1	+2.2	-11		
Baking and confectionery	+2.3	+. 2	-4.9	-		
Milk products	+4.8	+5.6	-8.4	-5.		
Milk products  Canning and preserving	-1.1	5	+17.0	+41		
Flour mills	-12.0	-6.4	-23.5	-52		
Tobacco manufacturing	+32.0	+10.3	+157.4	+93. +5.		
Other food products Light and power	+7.1	+6.7 -2.3	+11.1 +8.2	+15		
Printing and publishing	-4.4 +1.2	+1.4	+2.4	+1		
Laundering, cleaning, and dyeing	+.4	-2.3	4	+1		
Chemical (including soap, glue, and explosives)	-3.4	+.6	-22, 8	-15		
Construction:	****			-6.		
Building	-10.7	-10.3	+3.2	-0. -28.		
Highway	-37. 3 -1. 8	+3.0	-69. 0 9	-11		
Railroad Marine, dredging, sewer digging	+52.3	+58.1	-2.0	-28		
Communication:	102.0	7 00. 1	-0			
Steam railways	+3.0	+1.2	-2.9	-5.		
Electric railways	-1.2	-2.0	-27.6	-27. +3.		
Express, telephone, and telegraph	-6.1	-7.9	-1.5 +1.9	-15.		
Wholesale trade	-1.9	-9.4	-6.5			

<sup>&</sup>lt;sup>1</sup> Identical establishments.

PER CENT OF CHANGE IN NUMBER OF EMPLOYEES AND IN TOTAL AMOUNT OF PAY ROLL IN VARIOUS INDUSTRIES IN WISCONSIN FROM FEBRUARY, 1924, AND JANUARY, 1925, TO FEBRUARY, 1925—Continued

	Per cent of increase (+) or decrease (-)						
Kind of employment	January to	February, 025	February, 1924, to February, 1925				
	Employ- ment	Pay roll	Employ- ment	Pay roll			
Nonmanual							
Manufacturing, mines, and quarries  Construction  Communication  Wholesale trade  Retail trade (sales force only)  Miscellaneous professional services  Hotels and restaurants	0.0 -1.1 +2.4 -1.7 +.3	-0.6 .0 +2.7 +.5 -1.5 +.8	+0.6 -4.5 +2.0 +6.7 +1.3 +4.6 -1.5	+7.5 -16.0 +5.4 +6.6 +6.5 +24.2			

# Placement of the Deaf in North Carolina, 1923-241

THE North Carolina Legislature of 1923 provided for the establishment of a bureau of labor for the deaf, and in April, 1923, this bureau began its work. Its prescribed duties are to take a census of the deaf and to secure facts, information, and statistics as to their condition, and as to conditions of labor, employment, and education of the deaf in other States, with a view to promoting the general welfare of such persons in North Carolina. The bureau has carried on a campaign of education to convince employers that there are many positions that can be filled by capable deaf persons to the satisfaction of any considerate employer, and has endeavored to place the deaf in positions to fit their peculiarities of body and mind, and which will be satisfactory to them.

A questionnaire was sent to all the known deaf in the State (1,189) requesting information along various lines, but only 342 blanks were returned filled in, and of these, 221 were sent by persons in need of help. It was found, however, that, due either to lack of education regarding the capability of the deaf or to prejudice on the part of the employer, there was little demand for their services. The following table shows the number referred to positions, the number placed,

and those unplaced, classified by industry and occupation:

PLACEMENT OF THE DEAF IN NORTH CAROLINA, APRIL 1, 1923, TO OCTOBER 1, 1924, BY INDUSTRY AND OCCUPATION

Industry and occupation	Number referred to positions	Number placed in employment	Number unplaced
Agriculture: Farm handsBuilding and construction:	7	2	5
Carpenters Painters, paper hangers, etc Bricklayers	32 8 2	14	22 7 1
Building trade helpers Clerical: Bookkeepers	4	2	3
TypistsOffice clerks	3	1	1 2

<sup>&</sup>lt;sup>1</sup>North Carolina. Department of Labor and Printing. Thirty-fourth report, 1923-1924. Raleigh, 1924.

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PLACEMENT OF THE DEAF IN NORTH CAROLINA, APRIL 1, 1923, TO OCTOBER 1, 1924, BY INDUSTRY AND OCCUPATION

Industry and occupation	Number referred to positions	Number placed in employ- ment	Number unplace
Clothing and textiles:			
Hand-sewing trades	14	6	
Tailors Power-machine operators	2		
Shirt, collar, and cuff workers	2 2	2	
Textile workers	30	17	
Mill helpers	30	2	1
Domestic and personal service:	0	2	
Domestics	17.0	1	
Laundry, cleaning, and dyeing	0	1	
Food, beverages, and tobacco:	. 1	1	
Confectionery workers			
Cigar, cigarette, and tobacco workers	17	1 7	
Ice-cream factory helpers	1	metro i	
Hotels and restaurants:		1	
Cooks			
Kitchen workers			
Loother rubber and allied products. Shee workers	4	1	
Leather, rubber, and allied products: Shee workers Lumber: Woods laborers	o Thomas	1	
Motals and machinery:			
Auto garage workers	4	1	
Machinists	ount 2	J'TOVO	
			~~~~
Motion-picture operators Paper manufacture: Paper box and bag workers	3		
Printing trades:	word mad	TITLE I	
Printers and pressmen	15	5	
Feeders and bindery workers	4	2	
Professional and technical: Teachers	3	2	
Woodwarking and furnitura.		-	
Cabinetmakers and furniture finishers	2	1	
Machine woodworkers	. 3	3	
Coffin makers	2	2	
Miscellaneous:	G. Barrery	2000	
Miscellaneous: Barbers	1		
Salve feetery workers	1 1 1		
Newspaper agents	4	1	
Common labor	1		-
Casual workers	5		
			-
Total	190	81	1

Except in the case of printers and carpenters the record shows that the men take up whatever work they can find; the women prefer factory work and do not care much for domestic work. There was a large number of unskilled applicants, only a small proportion of whom secured work and that with difficulty, for the reason that they are deficient in shop language, which handicaps them in understanding orders. In the clerical and professional field the deaf find it difficult to obtain work because hearing is necessary in such occupations.

# Unemployment in Foreign Countries 1

SINCE the last publication in the Monthly Labor Review (February, 1925, pp. 145-157) of data on unemployment in foreign countries the employment curve in practically all countries has undergone a more or less marked depression. The only exceptions are in Germany, Switzerland, and Canada, but the improvement of the labor market even in these three countries was very

<sup>&</sup>lt;sup>1</sup> Except where otherwise noted, the sources from which this article is compiled are shown in the table on pp. 164 and 165.

slight. As a rule, unemployment increases in all countries during the winter months, because most outdoor industrial activities come to a temporary standstill. The present slump in the European labor markets is, however, not due solely to seasonal influences. eral credit stringency, the abnormal condition of the State finances of certain countries, and the decreased purchasing power of the great mass of the population due to high cost of living and low wages, all played a considerable rôle in the recent unfavorable development of the labor markets abroad. In one country, Austria, unemployment has in recent months attained alarming proportions, the unemployment figures for January exceeding all previous high records for that country. In Poland, unemployment is also increasing from week to That the general industrial situation is not very promising in Europe at the present time is indicated by the fact that even in France, where unemployment was practically nonexistent during the past year, symptoms of a business depression have been observed.

Briefly summarized, the situation in the individual countries at the

latest date for which data are available is as follows:

Great Britain.-In describing the employment situation in Feb-

ruary, the Ministry of Labor Gazette states that:

Employment showed little change on the whole during February. There was a slight improvement in the building, engineering, and clothing trades, but a decline in coal mining, and in the wool textile, and linen industries. Employment was good on the whole with skilled operatives (except painters) in the building trades, in some branches of the cotton industry, and in the brick and jute trades; it was fairly good with coach builders and mill sawyers, and in the furnishing, silk, and carpet trades. In coal mining, in the wool textile industry, and in the section of the cotton industry spinning American cotton it was slack; in the iron and steel industry, in timplete manufacture and in the manufacture. and steel industry, in tinplate manufacture, and in the marine engineering and shipbuilding trades it continued bad.

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Among workpeople covered by the unemployment insurance acts, numbering approximately 11,500,000, and working in practically every industry except agriculture and private domestic service the percentage unemployed at February 23, 1925, was 11.6, compared with 11.5 at January 26, 1925, and 10.7 at February 25, 1924. \* \* \* Among members of trade-unions from which returns were received the percentage of unemployed was 9.4 at the end of February, 1925, compared with 9 at the end of January, and with 8.1 at the end of February, 1924. The total number of persons (insured and uninsured) registered at employment exchanges in Great Britain and Northern Ireland as unemployed at February 23, 1925, was approximately 1,287,000, of whom 980,000 were men, and 239,000 were women, the remainder being boys and girls; at January 26, 1925, it was also 1,287,000, of whom 969,000 were men and 243,000 were women; and at February 25, 1924, it was 1,192,000 of whom men numbered 878,000 and and at February 25, 1924, it was 1,192,000, of whom men numbered 878,000 and women 241,000.

A report from the American commercial attaché at London dated February 28 (Commerce Reports, March 9, 1925, p. 542) states:

February business was characterized by hesitancy and a slowing down that is believed to be temporary, following the November-December improvement. This lull [was] caused by political and actual increased continental competition in coal, iron, and steel; by the weakening sterling exchange, the uncertainty as to the date of return to the gold standard, and the further course of British-American price levels and interest rates; and, finally, by the early but unsettling maneuvers in wage discussions in the coal, engineering, shipbuilding, and railway industries. The general lull in activity is evidenced by reduced coal exports, low production in the iron and steel and shipbuilding industries, shorter hours of cotton spinning. in the iron and steel and shipbuilding industries, shorter hours of cotton spinning, and nonreduction in total unemployment.

The coal industry remained depressed throughout February, although the averge production was maintained in spite of delay in the expected improvement in omestic manufactures that require coal. \* \* \* The iron and steel demand domestic manufactures that require coal. The iron and steel demand generally is slack in all lines except Sheffield acid steel. \* \* New orders for ships continue to diminish and shipbuilders are urging the Government to build warships in advance of their program, instead of paying unemployment insurance.

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Automotive sales were retarded by bad weather and were below the average.

\* \* \* Light car manufacturers are fully engaged; heavy type fairly stationary. \* \* \* Some slackening in the motor cycle trade is possible as a result of the increasing popularity of the light car.

Reduced operations in Lancashire have strengthened the spinners' position. Yarn and cloth prices are firm; raw-cotton prices are steady; cotton goods exports are fair; but orders from major markets are lacking. The dyestuffs industry is on a hand-to-mouth basis, pending the settlement of the question of reparations dye delivery.

The hide and leather trade is less active. \* \* \* Department stores and cooperatives report excellent results in retail trading in 1924.

Irish Free State.—Reporting on the economic situation in the Irish Free State the American consul at Dublin, under date of January 20, 1925, states that the labor situation remains unsatisfactory. The year closed with about 41,000 registered as unemployed and with a number of labor disputes unsettled. In an effort to relieve the distress attending unemployment the Government, on December 5, made a grant of £250,000 to be spent chiefly in providing work in the rural districts. In addition, the unemployment insurance act of 1924 was extended so as to provide relief for 46,341 unemployed for 21 weeks from October 30, which it was estimated would cost about £370,000. At the time of the extension of the act the insurance fund was in debt some £1,000,000 owing to the decrease in contributions following the increase in the unemployment rate from the normal 7 per cent of the insurable population to 18 per cent.

In general trade conditions a slump prevails tending toward uncertainty and caution. The subnormal crop has had a depressing effect. The increase in prices of farm products failed to improve appreciably the condition of the agricultural community as a whole, owing to the continued high prices of manufactured articles, heavy transportation costs, high taxes, and a shrinkage in cross-channel demand for Irish farm produce.

The existing stagnation is reflected in the decreased purchasing power of the country. Agricultural implement dealers are feeling its effects and the automotive trade has not been so active, this, however, being partly seasonal. Trading in lumber and building supplies has been dull, but owing to increased building activity under public support the outlook is promising.

The expansion of domestic industries, as the result of the protective duties on boots and shoes, confectionery, soaps, and candles continued throughout the last quarter of 1924.

Germany.—The Reichsarbeitsblatt, the official bulletin of the Federal Ministry of Labor, in its issue of March 8, 1925, summarizes the situation in February as follows:

Employment in industry has generally continued to improve slightly during February. A slump has been reported only by the coal-mining industry and by individual establishments in a number of other industries, especially the food and tobacco industries. The narrow range open to German industry for its development again makes itself felt. An increasing number of reports have been received pointing out a slowing down in the payment of bills due and a hesitancy on the part of the trade and of consumers in making purchases. The metal-working industries expect a sudden stoppage of orders. As in preceding months, orders received by industrial establishments are almost without exception of domestic origin. Export business, on the whole, has not been stimulated.

The Reichsarbeitsblatt received returns on the state of employment in February from 3,023 typical industrial establishments employing 1,330,000 persons. The per cent of workers employed in establishments reporting poor employment decreased from 28 in January to 26 in February, that of workers employed in establishments reporting fair employment fell from 47 to 45, and that of workers employed in establishments in which employment was reported as good rose from 25 to 29. The reports of the State employment offices also indicate a slight general improvement of the labor market, chiefly due to increased employment in the metal-working, woodworking, and clothing (except shoes) industries. The improvement is, however, also due to increased employment in outdoor occupations (agriculture, building, quarrying, etc.).

A report of the American commercial attaché at Berlin, dated March 13, 1925 (Commerce Reports, March 23, 1925, p. 672), states:

The recent business activity [in Germany] now shows signs of slackening as evidenced by the unsatisfactory volume of foreign and domestic sales at the Leipzig International Fair of March 1 to 11. High prices, from 10 per cent to 15 per cent above the level of the previous fall fair, resulted in poor foreign sales in all but a few lines and in small domestic orders that were confined principally to retail stocking. Recent decline in world grain prices and the prospects of further drops in basic iron prices have resulted in the refusal to make long-term buying commitments. The steel production of the Raw Steel Cartel for March has been fixed at 15 per cent of the normal quota. Reduced consumption, in addition to unusually good winter weather, has left Ruhr coal stocks on hand amounting to 8,500,000 tons.

Increased production in Germany during the past year has resulted in accentuating the labor unrest in the major German industries. The situation was brought to a head by the termination of labor agreements in the most important industries on March 1. The improving position of labor is shown by the decline in unemployment figures during the past year from 26 per cent to 8 per cent and in part-time unemployment from 23 per cent to 6 per cent.

The following employment statistics published in the March 8, 1925, issue of the Reichsarbeitsblatt and covering the month of

January are the most recent statistics available.

Returns from trade-unions show on the whole unchanged conditions as compared with December, 1924. Out of 3,523,861 members covered by the 40 federations making returns, 283,797 or 8.1 per cent, were unemployed on January 31, 1925, as compared with 8.1 per cent on December 27, 1924, and 26.5 per cent at the end of January, 1924. These figures relate to members wholly unemployed. In addition, returns from 34 federations covering 3,000,000 members, in round figures, show that 166,476, or 5.5 per cent, were working short time at the end of January, as compared with 6.5 per cent at the end of December, 1924, and 23.4 per cent at the end of January, 1924. The average time lost per short-time worker has also decreased considerably.

The number of totally unemployed persons in receipt of unemployment doles throughout Germany, inclusive of the occupied area, fell from 586,742 on January 15, 1925, to 575,555 on February 15, 1925. These totals show only the number who have fulfilled the conditions entitling them to unemployment benefits under the regulations of February 16, 1924, and not all persons unemployed in Germany.

Returns from employment exchanges show that the number of applicants for work increased from 1,306,733 in December, 1924, to 1,491,170 in January, 1925, or 14.1 per cent, but the vacancies reported by employers increased at a still greater rate, namely, from 386,362 to 474,571, or 22.8 per cent. For every 100 vacant situations for men there were on an average 403 applications, and for

every 100 for women, 172 applications; in December, 1924, the cor. responding figures were 404 and 206.

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According to the monthly reports of the sick funds, the number of members paying contributions on February 1, 1925 (and therefore assumed to be working), showed an increase of 0.3 per cent over the

preceding month.

France.—Although unemployment continues to be negligible in France, there has been a slight increase in the number of unemployed in recent months. On March 19, 1925, there were 1,030 persons in receipt of unemployment benefits from departmental and municipal unemployment funds, as compared with 500 on December, The number of persons on the live register of public employment exchanges has also increased. On March 14, 1925, they numbered 13,968 as compared with 12,409 on December 6, 1924.

Two reports from the American commercial attaché at Paris, dated February 8 and March 7, 1925 (Commerce Reports February 16, 1925, p. 362, and March 16, 1925, p. 608), indicate "hesitancy" in French industries. It is stated that there is a general slackness and increasing idleness in the wool combing and spinning plants, a one-day week being worked in many factories. Spinners of carded wool are busy, stocks of yarn are low, and the condition of the weaving industry is satisfactory. Cotton spinners and weavers still have good advance orders, but few new orders are being received. silk industry is reported to be satisfactory, but buyers are hesitant, and the outlook is below expectations; the artificial-silk trade is active. Business in linen yarns is slow and in cloth is extremely dull, with the outlook discouraging. There is increased dullness in the lace industry, but trade in tulles is fair and in embroideries good.

The iron and steel market is nervous, owing to the high German tariffs that have been in operation since January 10, to rising costs, and to restricted orders. The leather industry is depressed as a result of the relative shortage of money and the high cost of living. Shoe factories and retail shoe stores find business dull, and there is partial idleness in some factories. The belting industry is having labor troubles; other industrial leather manufacturing is very calm.

The demand for industrial coal is moderate, and that for domestic coal continues weak. January production of coal and lignite showed a considerable increase over December and November, but coke and briquettes showed little

Agricultural-machinery factories are well occupied. \* \* \* The industrialmachinery market is improved. Manufacturers are placing funds in plant improvement because of currency depreciation. The cessation of imports from Germany has reacted favorably for French manufacturers. The electrical-

equipment industry is active, with good domestic and foreign sales.

The output of the French automotive industry is well below the capacity of the plants. Large-scale producers of small cars are reported to have heavy stocks on hand, and the forecast for 1925 production is below last year's figure.

The condition of growing wheat is reported to be fair and the gen-

eral agricultural situation satisfactory.

Belgium.—In recent months there has been a considerable increase in the amount of unemployment in Belgium. The latest unemployment statistics available relate to January. Returns received by the Ministry of Industry and Labor from 1,380 approved unemployment insurance funds, with a total membership of 633,406, show that 38,516 of the members were either totally or partially unemployed at the end of the month. The total days lost through unemployment in January numbered 564,577, or 3.76 per cent of the aggregate possible working days; in the preceding month the percentage was 1.64,

and in January, 1924, it was 2.30.

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According to two reports from the American commercial attaché at Brussels, dated February 13 and March 13, 1925 (Commerce Reports, February 23, 1925, p. 424, and March 23, 1925, p. 671), Belgian industrial activity has been declining in recent months.

The larger [iron and steel] mills are still buying raw materials for completion of the remaining orders received during December and January, although few new orders are being received and all markets are inactive. Production will probably decline unless the expected exhaustion of consumers' stocks should bring relief. Oriental orders have decreased. \* \* \* German and French competition is keen.

Cotton-spinning mills are concerned at the absence of new orders. \* \* \* Flax spinners are suffering from French underbidding, and linen looms are 50

per cent idle, with a weavers' crisis threatened.

Plate-glass production continues at 50 per cent capacity \* \* \*. Window-glass production has been reduced, in keeping with the diminishing demand during February.

The crisis in the coal market continues, with stocks at 2,000,000 tons, representing an idle capital of 150,000,000 francs. With continuing curtailment of production, the unemployment of mine and surface workers is increasing.

The Netherlands.—According to the Central Bureau of Statistics of the Netherlands, 32,031 members of unemployment funds, or 11.8 per cent of the total membership, were wholly unemployed on January 31, 1925, and 7,787 or 2.9 per cent were partially so. The corresponding percentages on December 27, 1924, were 10.9 and 2.6, respectively. Employment exchanges also report a slight increase in the number of applicants on the live register, these numbering on January 31, 1925, 88,851, as against 86,977 on December 31, 1924, and 117,474 on January 31, 1924.

A report of the American commercial attaché at The Hague, dated March 13, 1925 (Commerce Reports, March 23, 1925, p. 672), describes Netherlands' industries as active on the whole. While certain sections of the cotton industry are rather slack, spinners are generally well provided with orders, and a yarn shortage is inducing manufacturers to extend operations and to construct new spindles. Conditions in the wool manufacturing industry have become less favorable. On March 1 the coal mines reduced prices considerably and the miners are now protesting against the 10 per cent wage

reduction which is proposed for April 1.

Switzerland.—According to the Federal Labor Office the Swiss labor market underwent a slight but marked improvement in February. The number of persons registered at public employment exchanges fell from 12,184 on January 31, to 11,834 on February 28, or 3 per cent. During the same period the number of vacant positions reported by employers rose from 2,387 to 3,103, or 30 per cent. With respect to the decrease in the number of applicants for work it should be noted that a decrease took place only among male applicants, especially among unskilled workers, while the number of female applicants increased considerably, particularly those seeking employment in the clothing, cleaning, and textile industries.

Considered by industry and occupational groups, the building trades, the hotel and restaurant trades, agriculture, woodworking, the glass industry, and domestic service showed the greatest improvement, which was mainly seasonal. In the textile, clothing, and clean-

ing industries the labor market continued slack.

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Italy.—In its most recent report on the employment situation the unemployment insurance division of the Italian National Social Insurance Institute reports an increase of 10.79 per cent in the number of totally unemployed at the end of December, 1924, as compared with the end of November. The totally unemployed numbered 150,449 (113,777 men and 36,672 women) at the end of December, as against 135,785 (105,333 men and 30,452 women) at the end of the preceding month. In addition there were 9,956 shorttime workers, as against 14,462 in November. When it is remembered that in January, 1922, the number of totally unemployed in Italy was 606,819, it will be seen that unemployment is now only onefourth as extensive as it was three years ago. The report also shows that 15,094, or only about 10 per cent of the totally unemployed in December, 1924, received unemployment benefits. Since the largest number of unemployed is now to be found in building and construction work (36,663) and in agriculture (36,142), the increase in unemployment in December, 1924, was chiefly due to seasonal influences.

In a cable dated February 28, 1925 (Commerce Reports, March 9, 1925, p. 543) the American commercial attaché at Rome reports

continued industrial expansion in Italy.

All branches of industry continue the strong trend of recent months. electric-power shortage in northern Italy has been relieved by abundant rainfall, making possible the resumption of a normal working schedule. The shortage of skilled labor in the industrial regions is increasing, and manufacturers are granting higher wages. [A strike in the Lombardy metal-working industries, which at its height involved 120,000 men, has been terminated. In some industries, there have been voluntary increases of wages in order to preclude the probability of further labor troubles.] The seasonal increase in unemployment continues to be less pronounced than in the winters of previous years. On January 31 [1925], the number of unemployed was 156,000. \* \* \* The increase from December, 1924, was only 6,000, as compared with 23,000 in the preceding year.

Industrial requirements of iron and steel are reported to exceed domestic production, in spite of the gradual increase in output. Provisional figures for 1924 show an advance of 13 per cent over 1923 in the production of pig iron and a decline of 3 per cent in steel production. The engineering trades are expand-

Satisfactory conditions prevail in all branches of the textile industry. consumption of raw cotton is heavy, and the demand for finished goods is constant. Large imports of Australian wool have increased the activity in wool combing, and weavers are working on a good volume of orders for the summer season. \* \* The artificial silk industry is manifesting notable activity,

and large increases in production are planned.

Tanners report that demand is favorable but that their margin of profit is still limited by high cost of hides, despite the recent advances in leather prices. The area planted to wheat this year shows an increase of 3.4 per cent over last year. Rye acreage is unchanged. Cereal crops have greatly benefited by recent rains and are now in average condition. The prospect for the almond

crop is doubtful.

Denmark.—A report of the American commercial attaché at Copenhagen, dated February 20, 1925 (Commerce Reports, March 2, 1925, p. 488) states:

Developments during the past month have given evidence of a favorable As a result reaction to the recently adopted stabilization measures. \* \* confidence is gaining ground, and the outlook with respect to trade, industry and finance is now more promising than for several years past. Output of farm products remains high, despite the prevalence of hoof-and-mouth disease; the

industrial situation is encouraging.

With the prevailing mild weather unemployment has already commenced to decline and now amounts to 44,000 as against 55,000 on the same date a year ago,

reflecting a satisfactory degree of activity in most industries. The labor outlook is somewhat obscured, as a large number of wage agreements have expired and only a few new contracts have been closed. In some instances wage negotiations have been severed.

In spite of a very mild winter, the situation in the freight market is unsatisfactory and 9,600 gross tons of shipping have been laid up. The shipbuilding industry, however, is very active, and several new foreign contracts have been

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The most recent unemployment statistics published by the Danish Statistical Office show that on February 27, 1925, 16.6 per cent of a total of 260,827 workers covered by returns of the trade-unions and of the Central Employment Exchange were unemployed, as against 16.3 per cent at the end of January, 1925, and 21.9 per cent at the end of February, 1924. Unemployment in Copenhagen, the capital city, has slightly decreased, but in the Provinces it has increased considerably during recent months. Unemployment in Denmark is now at practically the pre-war level (1910–1913).

Norway.—A cable from the American trade commissioner at Copenhagen, dated March 26, 1925 (Commerce Reports, April 6, 1925, p. 13), states that Norwegian industries are now operating on

full time.

Public attention during the past month has been focused mainly on the labor situation. Wage negotiations involving 65,000 workers have been under discussion and the Government proposal for slight wage increases was finally accepted by both parties and labor conflicts were definitely averted. The general industrial revival that has been in evidence since the latter part of 1924 thereupon received further impetus and crystalized the prevailing impression that the current year will be one of marked prosperity.

With the amicable settlement of wage disputes, all obstacles to further industrial progress have been eliminated. The Norwegian lumber, wood-pulp, and paper industries have been stimulated by the increased demand resulting from the temporary standstill of Swedish mills. The fish-canning and the metal and mining industries are also reported on full-time operation. Unemployment

declined during the month and stands now at 21,000.

Sweden.—According to the monthly report of the State unemployment commission, there were 12,589 unemployed persons requiring relief on its register at the end of December, 1924, as compared with 9,268 at the end of the preceding month. Trade unions reported 15.6 per cent of their members unemployed on December 31, 1924, as against 10.5 per cent at the end of November, 1924, and 14.1 per cent at the end of December, 1923.

The American commercial attaché at Stockholm reports under date of March 19, 1925 (Commerce Reports, March, 30, 1925, p. 741)

that labor conflicts are depressing Swedish conditions.

Widespread labor disputes in Swedish industries relative to wage readjustments could not be averted and have now reached their climax in a general lockout put into effect by the employers' association on March 16. Previous attempts at arbitration by the Government mediator resulted in temporary postponement only, as the differences were apparently irreconcilable. The resulting conflict is said to be the largest since 1909 and involves 130,000 workers. The chief cause of the difficulty was the dispute in the paper industry, where a wage increase of 40 per cent was demanded by the workmen. The decision of the labor leaders against the declaration of a general strike can presumably be taken as an indication that a settlement is desired.

As now in effect the dispute embraces engineering and machinery plants with 40,000 workers, textile mills with 28,000, sawmills with 23,000, wood-pulp mills with 15,500, paper mills with 12,500, and several minor trades with 11,000

workers.

Heavy losses have already been sustained in a number of instances by the industries involved, and trade is suffering.

A later cable (Commerce Reports, April 6, 1925, p. 5) states that "the labor conflicts which have seriously disrupted Swedish industries appear to have been terminated by an agreement which affects all existing lockouts and strikes. Work is to be resumed immediately, although but slight changes in wages have been effected."

Finland.—The American trade commissioner at Helsingfors reports (Commerce Reports, March 30, 1925, p. 740) a lull in Finnish business. Business is always slack there at this time of the year, but the condition this year has been somewhat accentuated by the practical absence of snow in the forests, thus curtailing logging activities. Advance lumber sales are progressing favorably. wood-pulp and paper industries are reported to be active.

The Bank of Finland Monthly Bulletin shows, in a table prepared from reports of the labor exchange department of the Ministry of Social Affairs, that the number of unemployed registered at communal labor exchanges was 4,896 at the end of January, 1925, as compared with 2,234 at the end of December, 1924, and with 1,615 at the end of January, 1924. In summarizing the employment situation the bulletin says:

Partly on account of the absence of snow and partly for other reasons, including a slackening in building activities, serious unemployment began to appear in Finland in January. For many years there have not been so many applicants for work as in the present winter. It has not proved necessary for the Government to take any steps to relieve the situation, the municipalities having so far been able to supply at least the majority of the unemployed with work. No further increase in the number of unemployed was reported during the first half of February.

Latvia.—During a debate on unemployment in the Latvian Saeima on February 20, 1925, the Minister of Labor stated that there were at the time in Latvia about 10,000 unemployed, of whom 3,500 were employed by the State on relief work. In his opinion this unemployment was due to the difficult conditions of the winter season. At the end of the debate the Saeima adopted a motion submitted by the Social Democrats, urging the Government to prepare a bill instituting a system of unemployment insurance at once.

Poland.—Beginning with November of last year the unemployment statistics compiled by the Polish Central Statistical Office show a slow but continuous increase in unemployment from week to week. On February 21, 1925, the number of unemployed registered at public employment exchanges was 181,640, as against 172,420 on January 24, 1925, and 147,065 on October 25, 1924. The number of persons in receipt of unemployment benefits on Feb-

ruary 21, 1925, was 82,189.

In spite of the steady increase in unemployment, which is probably due to deflation, the American commercial attaché at Warsaw reports, under date of March 12, 1925 (Commerce Reports, March 23, 1925, p. 674) that owing to the loan recently floated in America the financial stringency has been relieved and industrial conditions The most marked improvement is noted in show improvement. the textile industry, which is attributed to seasonal buying, new foreign credits, and better factory organization. Operation on a six-day week schedule has been resumed, but competition from Czechoslovak textile concerns is still felt. The iron and steel industry has been stimulated by Government buying, and several blast furnaces have resumed operations, there being now 10 operating on full or part time. The lack of snow during the winter is

causing anxiety for the fall-sown crops.

Czechoslovakia.—The American consul at Prague reports, under date of February 24, 1925, that unemployment in Czechoslovakia continued to increase in January, 1925. The number of totally unemployed in receipt of Government subsidies was 15,460, as compared with 11,483 in December, 1924. Family dependents to the number of 18,550 also received subsidies from the Government in January, as against 13,480 in the preceding month. The unemployed receiving Government subsidies in January were distributed as follows: Bohemia, 7,540; Moravia and Silesia, 3,970; Slovakia and Russinia, 3,950. In addition to the number of totally unemployed persons, 11,460 partially employed workers with 6,220 dependents, received assistance through their employers, as compared with 9,500 workers in December, 1924.

It is reported in the Slovensky Slove that 7,000 Government employees in Slovakia are to be discharged. It is understood that this is the beginning of an effort by the Government to reduce the number of its employees throughout the country, as the Government offices have been overstaffed. This reduction is apt to lead eventually to a reduction in the number of Government officials on the railways

and in other establishments operated by the Government.

The ammunition factory at Brno, because of limited production, has given notice to 250 of its employees, and between 10 and 15 per cent of the workmen employed in the production of cigars have been discharged as Czechoslovak Tobacco Monopoly is oversupplied

with cigars.

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Employment in the textile industry continued good during the month under review, although this industry, as well as others is badly affected by increased cost of production. In order to keep their factories in operation, it is frequently necessary for manufac-

turers to export at a loss.

Austria.—The most recent official unemployment statistics available for Austria show that on January 31, 1925, the number of unemployed in receipt of unemployment benefits had reached the enormous figure of 187,070. If it be considered that, owing to restrictive provisions of the Austrian unemployment insurance law, the total number of unemployed persons must be well in excess of 200,000 and that the total number of persons gainfully employed in industry and commerce is estimated to be about 1,300,000, it is seen that more than 15 per cent of these persons are now out of work. At the end of December, 1924, the unemployed numbered 154,493. On February 15, 1925, there were in Vienna alone 103,731 applicants for unemployment benefits. Unemployment seems to be most extensive among metal workers and private salaried employees, and in the building trades and the clothing industry.

building trades and the clothing industry.

A report of the American commercial attaché at Vienna, dated March 21, 1925 (Commerce Reports, March 30, 1925, p. 740), states that unemployment in Austria had apparently reached its peak at the end of February, when 190,000 persons were receiving unemploy-

ment benefits. The number of unemployed is now slowly declining and may be expected to decrease rapidly with the coming of spring

and the revival of seasonal employments.

Hungary.—The most recent statistics published by the Hungarian Statistical Office, which relate to December, show that of the total membership of the Hungarian Social-Democratic trade-unions 33,095, or 17.3 per cent, were unemployed on December 27, 1924, as against 30,568, or 16 per cent, on November 29. Of the above number of workers unemployed on December 27, 19,106 resided in Budapest, the capital, and 13,989 in the Provinces. The Statistical Office ascribes the increase in unemployment to general stagnation of industry and commerce, the seasonal stoppage of building activities, and the discharge of salaried employees. It is widely felt that a period of extensive liquidation will be inevitable before sound business conditions can become general.

Textile mills are working full time. The iron and metal industries.

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however, continue to be seriously depressed.

Portugal.—A report of the American consul at Oporto, dated January 22, 1925, states that as a result of the industrial crisis which prevailed during quarter ended December 31, 1924, unemployment has reached a level hitherto unknown in the district of Oporto. Union of Workmen's Syndicates estimates the number of unemployed in the city of Oporto alone to be 14,000, and states that in other industrial centers in this district unemployment is as extensive as in

Various plans for relieving the unemployment situation have been proposed, including the employment of a large number of the unemployed on the construction work being done at the seaport of Leixões, the sea harbor of Oporto. None of these plans has, however, been put into effect and the suffering among the unemployed has been intense. It is stated that in the Provinces a number of the unemployed factory workers are returning to agricultural pursuits which many of them left to enter the factories.

Canada.—The Dominion Bureau of Statistics reviews the March

employment situation as follows:

The trend of employment at the beginning of March was favorable; the upward movement, though rather slight, contrasts with a downward tendency indicated on the same date of last year. The Dominion Bureau of Statistics received returns from 5,696 firms, employing 715,158 persons, or 6,921 more than were on their pay rolls on February 1. The index number, reflecting this comparatively small increase, rose from 86.1 in the preceding month to 87.0 on March 1, as compared with 90.7, 89.9, 81.9, and 88.0 on March 1, 1924, 1923, 1922, and 1921, respectively 1922, and 1921, respectively.

Manufacturing was decidedly more active, but employment in other divisions

on the whole showed declines, partly seasonal in character.

Firms in all except the prairie Provinces reported improvement; the gains in Ontario were most extensive. In the Maritime Provinces employment in manufactures, particularly in the iron and steel and food groups, increased substantially while there was also greater activity in coal mining on March 1 than in the preceding month. Construction, however, was slacker. Statements were tabulated from 500 employers, whose pay rolls aggregate 60,832 as compared with 58,998 on February 1. Reductions in personnel were registered at the beginning of March, 1924. In Quebec logging and construction showed curtailment, but there were gains in manufacturing, notably in textile, iron and steel, pulp and paper and lumber factories. The result was an increase of 1,243 persons on the staffs of the 1,225 reporting firms; they employed 196,818 workers on March 1. In Ontario, 5,681 persons were added to the working forces of the 2,608 employers whose returns were tabulated, and who had 301,265 employees the date under review. Iron and steel showed marked expansion, while imrovement was also noted in textiles and other branches of manufacturing, and transportation, mining and construction. Logging, on the other hand, was asonally less active; trade and communication also registered reductions. Employment on March 1, 1924, had declined. In the Prairie Provinces there was a generally unfavorable movement; manufacturing, logging, mining, transportation, construction and trade all recorded curtailment, in some cases of a portation, construction and trade an recorded curtainment, in some cases of a reasonal character. Reports were compiled from 771 firms, employing 90,621 workers as compared with 94,161 on February 1. This contraction is slightly larger than that indicated at the beginning of March, 1924. In British Columbia, manufacturing reported increased activity, the lumber industry showing the greatest gains. Logging, highway construction, and transportation also afforded considerably more employment than in the preceding month, while trade and milway construction were slacker. A combined pay roll of 65,622 persons was imployed by the 592 firms whose returns were received; on February 1 they

had 63,919 employees.

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In manufacturing industries the 3,701 manufacturers reporting had 402,539 ersons in their employ, an increase since the preceding month of 13,210 workers, hich exceeded the gains registered on March 1 of 1924 or 1923. Iron and steel corded the greatest improvement; automobile, rolling, heating appliance, shiphuilding and agricultural implement works, in particular, showed marked recovey. Lumber, sugar, biscuit, confectionery, textile and nonferrous metal product actories also indicated considerable increases. Meat slaughtering and packing stablishments reported the only large reductions in this division. Logging, except in British Columbia, showed seasonal losses, according to returns from 25 firms employing 32,166 persons, as compared with 34,542 on February 1. curtailment was noted in the Western coal fields, while coal mines in the Maritime Provinces and metal mines in Ontario and British Columbia afforded more employment on March 1. Statements were tabulated from 202 mine operators, whose working forces aggregate 43,093, or 66 less than in the preceding month. Telephones showed further declines, but no change was indicated in telegraphs; 164 firms in this group employed 21,837 persons, as compared with 22,109 in their last report. Steam railway operation in the Prairie Provinces was slacker, while shipping in British Columbia was more active. The result was a decrease their last report. Steam railway operation in the Prairie Provinces was slacker, while shipping in British Columbia was more active. The result was a decrease of 712 persons in the staffs of the 262 transportation firms reporting, who employed 98,909 workers. Building construction showed improvement, but there were contractions in highway and railway construction. A combined working force of 48,606 persons was employed by the 391 contractors making returns; on February 1 they had 50,133 employees. Trade, both retail and wholesale, showed a falling off. The pay rolls of the 582 establishments whose reports were ompiled, declined from 56,215 workers in the preceding month to 54,970 on

Japan.—Under date of February 10, 1925, the American consul at okyo reports considerable unemployment in that city. The Chugai hogyo, a Tokyo newspaper, estimates that the number of unemloyed in the city in January was 30,000, while the Imperial Department of Finance estimates that the retrenchment policy of the Govemment will have resulted in the dismissal of 39,553 Government

employees during the fiscal year ending March 31, 1925.

Commenting on the situation, the local press attributes this widepread unemployment not only to the industrial depression, but to he tendency of labor to desert the farms, where living conditions re hard and rewards meager, for the cities and industrial centers. ome journals recommend that the situation be relieved by encouragg emigration to Manchuria and Mongolia. Others advocate the atroduction of new home industries among the farming population order to provide the farmers with remunerative employment during the winter months and so prevent the rush of the farming class the cities.

A summary of the latest statistical reports on unemployment broad is given in the table following.

# SUMMARY OF LATEST REPORTS ON UNEMPLOYMENT IN FOREIGN COUNTRIES

unemployed Source of data Remarks	ooks Ministry of Labor Gazette, of all London, March, 1925.	redv- Rej Sul Sul Sul Sul Sul Sul Sul Sul Sul Sul	Bulletin du Marché du Travail, Paris, Mar. 20, 1925.	yment funds, Mandschrift, The Hague, Formand 77, 28, or Feb. 28, 1925.	gister of publicdodododododo	and Le	0,827 workers Statistiske Efterretninger, Copenhagen, Mar. 20, 1925.	d. Sociale Meddelelser, No. 1, The corresponding figure on Nov. 25, 1924, was 19,600, and on Dec.
Number or per cent of unemployed	1,331,205 (number of unemployment books lodged), representing 11.6 per cent of all persons insured against unemployment 9.4 per cent of trade-union members.	41,000 persons registered as unemployed 575,656 totally unemployed persons receiving unemployment donation.  8.1 per cent of trade-union members were totally unemployed and 5.5 per cent worked short time.	1,030 persons in receipt of unemployment benefits from departmental and munici- pal unemployment funds. 13,968 persons on live register of public employment exchanges.	38,516 out of 633,406 members of ment funds were either wh ployed or on short time. 32,031 members of unemployn or 11.8 per cent of the total members who ily unemployed as	m		200	N.
Date	Feb. 23, 1925 Feb. 28, 1925	Dec. 31, 1924 Feb. 15, 1925 Jan. 31, 1925	Mar. 19, 1925 Mar. 14, 1925	Jan. 31, 1925 Jan. 31, 1925	Jan. 31, 1925 Feb. 28, 1925	Dec. 31, 1924	Feb. 27, 1925	Dec. 27, 1924
Country	Great Britain and Northern Ireland.	Irish Free State Germany	France	The Netherlands	Do	7/4 ( ) 6 ( ) 57 ( ) ( )	Denmark	Norway

-----do------- 12,599 unemployed persons (report of State | Socials Meddelanden, No. | The corresponding figure for the end of November, 1924, was 9,268.

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The corresponding figure for the end of November, 1924, was 9,268.  The corresponding per cent at the end of November, 1924, was 10.5.	and at the end of December, 1923, 14.1. At the end of December, 1924, the number of unemployed was 2,234, and at the end of January, 1924, 1,615.	Of the 10,000 unemployed, 3,500 were employed by the State on relief works.	The corresponding number on Jan. 24, 1924, was 172,420, and on Jan. 31, 1924, 100,530.  The corresponding number on Jan. 24, 1924, was 77,491.	The corresponding number at the end of November, 1924, was	ce, voc, and at the end of December, 1923, 191,978.  In December, 1924, the number of totally unemployed persons in receipt of Government doles was 11,483, and that of short-time workers receiving grants from their employers, 9,500.	The corresponding figure at the end of December, 1924, was 154,493.	The corresponding figure on Nov. 29, 1924, was 30,568, or 16 per cent.	Igent from the state of the sta	The corresponding per cent on Dec. 31, 1924, was 11.6, and on Jan.		to monare O constant of the principal of
Sociala Meddelanden, No. 2, Stockholm, 1925.	Bank of Finland Monthly Bulletin, Helsingfors, Feb-	Industrial and Labor Infor- ination, Geneva, Mar. 16,	Wiadomości Statystyczne, Warsaw, Mar. 3, 1925.	International Labor Review,	Report from the American Consul at Prague, Feb. 24, 1925.	Statistische Nachrichten,	Magyar Statisztikai Szemle, Budapest, November-	Report from the American Consul at Oporto, Jan.	Labor Gazette, Ottawa,	Report from the American Consul at Tokyo, Feb. 10, 1925.	the state of the last of the l
12,689 unemployed persons (report of State Unemployment Commission). 15,6 per cent of trade-union members	4,986 unemployed (3,481 men and 1,715 women) registered at communal em-	10,000 unemployed	181,640 unemployed persons	relief. 81,040 persons unemployed	15,460 totally unemployed persons received unemployment doles from the Government and 11,460 short-time workers received subsidies from their	employers. 187,070 totally unemployed persons in	33,095, or 17.3 per cent, of the members of the Social-Democratic trade-unions.	14,000 unemployed in the city of Oporto	10.2 per cent of trade-union members	30,000 unemployed in Tokyo	sibilidas promits volumento de la constitución de l
do	31, 1924	Feb. 20, 1925	Feb. 21, 1925	Dec. 31, 1924	-, 1924	fan. 31, 1925	Dec. 27, 1924	Dec. 31, 1924	31, 1925	-, 1925	a principer fund.
dodo.	Jan.	Feb.	Feb. 21	Dec.	di da	Jan.	Dec.	Dec.	Jan.	Jan.	not be established for
Sweden	Finland	Latvía	Poland	Czechoslovakia	(bei vi	Austria	Hungary	Portugal	Canada	Japan	eperdents may not or ad three of meraben ent.  From Ministre de Tovol 1 March de Travell, heb 28, 16 Comany Beleare tenne

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London, March, 1925. 31, 1923, 10.1.

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# Operations of Public Employment Offices in France 1

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THE departmental and municipal employment offices in France have been increasingly successful in the past eight years in placing workers in various classes of positions, the number of placements in 1924 amounting to 1,512,103. In addition to these positions filled by the regular public employment offices, 239,365 placements of immigrant workers were made by the frontier service.

The following statement shows the general results of the work of the departmental and municipal offices from 1917 to 1924:

	Number of placements
1917	159, 791
1918	326, 513
1919	882, 472
1920	1, 078, 294
1921	
1922	
1923	1, 446, 426
1924	<b>1, 512,</b> 103

The largest number of placements were of dockers and other port workers, 560,464; in food distribution, 212,394; loading and unloading, 156,394; agriculture, 127,847; and domestic service, 102,643.

# Swiss Federal Law on Unemployment Insurance 2

LTHOUGH Great Britain, Italy, and Austria have established compulsory unemployment insurance, which theorists have declared to be the only satisfactory solution of the problem, Switzerland recently has tried to solve the problem of unemployment insurance by enacting a law providing for voluntary insurance with Government subsidies. The principal provisions of the new law are as follows:

The "Federal law on contributions of the Federal Government to unemployment insurance" of October 17, 1924, provides that the Federal Government shall each fiscal year grant subsidies to public and private unemployment funds operated on insurance principles. Subsidies are not to be granted to funds operated for profit or for purposes not germane to unemployment insurance. In order to be entitled to Federal subsidies the funds must have a bookkeeping and accounting system of their own, must give guaranty for the proper administration of their resources, must have precise regulations as to contributions of members, benefits, and use of surplus funds, and must prohibit their members from holding membership in another fund.

Each fund shall pay its unemployed members daily benefits in accordance with its by-laws. Members who have dependents shall receive benefits at least 10 per cent greater than those of members without dependents. The maximum daily benefits of members with dependents may not exceed 60 per cent of their daily normal earnings and those of members without dependents may not exceed 50 per

<sup>&</sup>lt;sup>1</sup> France. Ministère du Travail, de l'Hygiène, de l'Assistance et de la Prévoyance Sociales. Bulletin du Marché du Travail, Feb. 20, 1925.

<sup>2</sup> Germany. Reichsarbeitsministerium. Reichsarbeitsblatt, Berlin, Feb. 8, 1925, pp. 55 and 105\*.

In order to receive unemployment benefits the insured person must be out of work through no fault of his own, be registered at a public or trade employment exchange, and be unable to obtain suitable work. In addition he must have been a member of an unemployment fund and have paid contributions for a minimum of 180 days. If he fulfills all these conditions he becomes entitled to benefits three days after his registration at an employment exchange. Claim to benefits is limited to 90 days within 360, but in times of an economic crisis the Swiss Federal Council may extend this period beyond 90 days.

An insured person who becomes unemployed as a consequence of a labor dispute loses his claim to benefits for the period of the dispute and for 30 days afterwards. An unemployed person disabled for work loses his claim to benefits for the period of his disability. An insured person also forfeits the right to unemployment benefits if he refuses to accept suitable work or owing to his own fault does not find work, or if he does not comply with the provisions for his control, or if he makes incorrect or incomplete representations as to his unemployment or attempts to obtain benefits fraudulently.

Benefits may also be paid for partial unemployment. The benefits together with the earnings of the insured person may, however, in the case of persons with dependents not exceed 80 per cent of their normal earnings and in that of persons without dependents it may not exceed 70 per cent. Claim to benefits ceases if within 360 days the benefits received by an insured person for partial unemployment together with possible benefits for total unemployment exceed in

amount full daily benefits for 90 days.

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The Federal Government subsidy to unemployment insurance funds has been fixed by the law in the case of public funds and of private funds administered jointly by employers and workers at 40 per cent of the statutory benefits paid by these, and in the case of all other unemployment funds at 30 per cent. The Federal Assembly may temporarily increase the subsidy by 10 per cent. Benefits paid to members under 16 years of age or to those living abroad are to be deducted in computing the Government subsidies. unemployment insurance fund which claims a Government subsidy must transmit to the Federal Labor Office two copies of its bylaws and regulations and all amendments to these and must also furnish to this office all statistics requested by it. The Federal subsidy becomes payable after the examination of the annual financial report of the unemployment funds by the Labor Office. This office is also authorized to investigate at any time the business administration of a subsidized unemployment fund. Subsidized funds may be granted advances of the Government subsidy.

A Federal subsidy may be granted subject to the condition that it shall be used to increase benefits or to grant benefits for a period in excess of 90 days, or for the opening of a reserve fund, or that the Cantons or communes also grant subsidies to the fund. It may also

be conditioned on a minimum membership of the funds.

The Federal Council may refuse the payment of subsidies to unemployment benefits of aliens whose native country treats Swiss citizens less favorably in the matter of unemployment insurance than its own nationals.

# INDUSTRIAL ACCIDENTS AND HYGIENE

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# industrial Accidents in the United States in 1924 1

N INCREASE of about 6 per cent in the number of industrial fatalities in the United States during 1924 is indicated by reports received from State labor departments and industrial accident commissions of 18 States. Such an estimate is open to question owing to the incomplete representation of States and the fact that several of the reports are for the fiscal year ending June 30. However, it is fairly safe to assume that there was a slight increase in the number of industrial fatalities for 1924 over 1923, although the increase was less marked than that of 1923 over 1922.

With regard to nonfatal injuries, the meager statistics available seem to indicate a slight reduction in the actual number of personal injuries though not in frequency rates based on the number of man hours worked. It is well known that fewer persons were employed in American industries in 1924 than in 1923, although no accurate

estimate of the decrease has yet been made.

Reports from individual companies in many lines of industry show. ing improved frequency and severity rates aroused hopes that the decrease was general throughout American industry, a hope that has received little encouragement from the State reports. The companies reporting reductions had with scarcely an exception made earnest efforts in accident prevention. One definite conclusion may be drawn from the somewhat inconclusive statistics presented—that accidents grow like weeds when there is no systematic effort to check them.

Another conclusion, one which has long since been realized by all interested in accident prevention, is the need of more uniform methods of compiling accident statistics by State departments. Several States were unable to supply accident statistics more recent than those for the calendar year 1923 and still others had no means of determining even the number of fatalities occurring in the State, to say nothing of the nonfatal injuries. State officials have shown the utmost willingness to cooperate with the National Safety Council by furnishing all available information but in many cases departments have been handicapped by insufficient appropriations to compile the necessary statistics.

There is also a wide diversity in the comprehensiveness of the statistics furnished by different States. In a few, all industrial accidents are included, while in others railroad and mining casualties are omitted. In other States not all manufacturers are covered by the compensation laws. Some States report all injuries requiring medical attention while others list only compensation cases. This difference will be readily apparent in the accompanying table when the proportion of nonfatal injuries to fatalities is noted. Several States list all injuries according to severity—permanent total dis-

<sup>&</sup>lt;sup>1</sup> Reprinted from National Safety News, Chicago, April, 1925, pp. 19, 20. agostan owo strong

ability, permanent partial disability, and temporary disabilities according to time lost. The proportion of States keeping such detailed statistics, however, was not sufficient to include these subdivisions in the table. It must be remembered, of course, that the experience of one State is not exactly comparable with that of another but is of interest for comparison of the two periods.

INDUSTRIAL ACCIDENTS REPORTED BY STATE DEPARTMENTS, 1923 AND 1924

State	19	23	1924		
January and another than the second	Fatal	Nonfatal	Fatal	Nonfatal	
Colorado 1	168	5, 139	140	5, 520	
Idoha	: 57	6, 310	83	6, 401	
Kentucky 2	108	24,000	97	28, 133	
Maine	61	16, 305	30	14, 083	
Massachusetts 2	330	64, 560	336	60, 103	
Minnesota	181	39, 358	221	37, 901	
Montana 3	81	5, 048	87	5,702	
Nebraska	30	16, 162	35	15,000	
Nevada 2	31	1,074	30	1, 305	
New Jersey 3	290	49,002	283	47,958	
New York 9	662	57, 416	1,109		
Ohio	888	183, 983	999	174,454	
Oregon	178	30, 013	142	25, 811	
Pennsylvania	2, 412	200, 435	2, 209	177,539	
Rhode Island: Compensable cases	39	4, 098	31	9 750	
Noncompensable cases	00	26, 987	01	3, 758 23, 878	
Tennessee	90	25, 008	142	21, 223	
Vermont	44	10, 950	33	9,664	
Virginia	145	9, 188	163	10,088	
Washington	401	35, 523	407	39,095	

<sup>1</sup> Year ending Nov. 30.

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Unlike the reports for 1923, the tendency is not universally upward. Several States showed reductions in the number of fatalities, the extent of the reduction perhaps indicating to some extent the curtailment of the number of man hours worked. Others showed fewer nonfatal injuries but an increase in fatalities.

In Maine, for example, where fatalities were reduced from 61 to 30, the decrease is largely attributed to curtailed operations in the textile,

shoe, and pulp and paper industries.

Part of the increase, though probably only a small percentage for the United States as a whole, may be due to the increasing strictness of State departments in securing reports of personal injury accidents. Harry L. Nelson, superintendent of the division of workmen's compensation of the Tennessee Department of Labor, states that part of the increase in the number of fatal accidents in Tennessee is attributable to increased efforts along this line. A similar opinion is expressed by David R. Henderson, chief of the division of accident prevention, Industrial Commission of Minnesota, who says in part:

Accident data are misleading when trying to determine whether accidents are increasing or decreasing during a certain period of time, due to the fact that compensation laws are becoming more drastic and are better enforced, therefore

making the reporting of accidents more accurate.

At present more accidents are being reported than ever before due to the fact that employers are more careful in reporting. In the past we have found that many employers did not report any accidents unless the man drew compensation. Also, many employees are drawing compensation for accidents where in the past, due to the lack of enforcement of the law, no damages were collected. I believe

<sup>3</sup> Year ending June 30.

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that this condition has existed in all parts of the United States and that it is erroneous to assume that industrial accidents are increasing in the United States, Due to the intensive accident-prevention work undertaken everywhere, it is our firm belief that industrial accidents are decreasing, in spite of statistical data to the contrary. As the data secured becomes more accurate, we are sure that the decrease in accidents will be shown.

Others who are less optimistic than Commissioner Henderson regarding the accident situation, realize the justice of this argument. However, in the absence of more complete information, the present available statistics are of interest and value.

The increase in fatalities in Minnesota was due to the Crosby mine disaster in February, 1924, in which 42 miners lost their lives.

Among the most complete records received were those for Pennsyl. These include mines and public service accidents as well as accidents occurring in manufacturing operations. All three groups showed reductions in both fatal and nonfatal accidents. Pennsylvania industries are widely diversified, including mining, and represent a fair cross section of American industry. In one respect, however, Pennsylvania differs from many States. A considerable proportion of the workers are employed by large concerns, particularly in the steel industry, which are active in accident prevention. Decreased industrial activities in these companies did not result in abandoning the safety program, and safety departments, freed from the problem of assimilating large numbers of new workers, were able to reduce accidents.

Fatalities in coal mining throughout the United States showed a reduction in the actual number of deaths, but an increase in the fatality rate per million tons mined. The number of fatalities was 2,381 for 1924 and 2,458 for 1923, a decrease of 77, but the rate per million tons was 4.27 against 3.74 for the previous year, according

to reports of the U.S. Bureau of Mines.

Delaware reports an estimated decrease of approximately 10 per cent in the number of fatal and nonfatal accidents from the 1923 records.

Wisconsin reports an increase of 8.7 per cent in the number of compensable cases closed during the year, the figures for 1923 and 1924, respectively, being 20,941 and 22,766. Figures for 24 principal industrial cities of the State for the two years (in which industries are undoubtedly better organized for accident prevention) show 13,747 compensable cases for 1923 and 13,707 cases for 1924, a decrease of three-tenths of 1 per cent. The ratio of machine accidents to all cases was 16.2 per cent, the lowest percentage on record.

A reduction in the total number of railroad casualties of all kinds for the first 11 months of 1924 as compared with the same period of 1923 is shown by the statistics of the Interstate Commerce Commission. During this period of 1924 there were 6,087 persons killed and 131,416 injured compared with 6,779 fatalities and 159,534 injuries during the same period of 1923. Fewer locomotive miles and fewer man hours worked were reported by the railroads. Casualties per million locomotive miles for 1923 were 3.81 for fatalities and 31.02 for injuries; for 1924 the rates were 3.62 and 27.76. For nontrain accidents the rates per million man hours worked were 0.40 for fatalities and 31.56 for nonfatal injuries against the 1924 rates of 0.33 and 27.77.

Reports covering the accident experience of the industrial sections of the National Safety Council are now being prepared by the statistical committees of the sections and will be published in the National Safety News as soon as the tabulations are completed.

# Quarry Accidents in the United States in 1923

THE report of the United States Bureau of Mines on quarry accidents in the United States during the calendar year 1923, issued as Bulletin 246, shows that more men were employed at stone quarries in 1923 than in any year since 1915, and the average number of workdays per man was the highest ever reported. The fatality rate from accidents at quarries was the lowest on record, while there was a slight increase in the nonfatal injury rate over that

in recent years.

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er or ies id The number of men employed in 1923 was 92,455 and the average number of workdays per man was 276. There were 143 men killed and 14,990 injured, the fatality rate being 1.68 and the injury rate 176 per 1,000 300-day workers in 1923 as compared with 1.92 killed and 172 injured in 1922. Corresponding rates for the five-year period 1916 to 1920 were 2.10 and 160, respectively. The number of men employed within the quarry pits was 57,188 and accidents to these men resulted in 99 deaths and 8,946 injuries, while there were 35,267 employed at crushers and other plants outside the quarries, with 44 deaths and 6,044 injuries. Among the men working inside the quarries there were 1.97 fatalities and 178 injuries per thousand full-time workers and among men working outside at crushers, cement mills, etc., the rates were 1.26 and 173, respectively.

The following table shows the number of persons killed and injured

during 1922 and 1923, by kinds of quarries:

NUMBER OF EMPLOYEES AND NUMBER KILLED AND INJURED, DURING THE YEARS ENDING DECEMBER 31, 1922 AND 1923, BY KIND OF QUARRY

	Active operators	Men er	nployed	K	illed	Injured	
Kind of quarry		Actual number	Equiva- lent number of 300-day workers	Num- ber	Per 1,000 300-day workers	Num- ber	Per 1,000 300-day work- ers
Cement rock 1922 Granite Limestone Marble Sandstone and bluestone Slate Trap rock	78 250 802 44 154 74 147	12, 260 8, 956 39, 961 4, 803 4, 305 3, 941 4, 855	12, 759 7, 038 33, 728 4, 626 3, 349 3, 493 3, 868	29 10 63 2 4 11 13	2. 27 1. 42 1. 87 . 43 1. 19 3. 15 3. 36	2, 438 1, 036 5, 994 591 337 445 998	191. 08 147. 20 177. 72 127. 76 100. 63 127. 40 258. 01
Total	1, 549	79, 081	68, 861	132	1. 92	11, 839	171. 93
Cement rock	72 289 865 51 164 75 166	13, 378 11, 658 46, 325 5, 351 4, 972 4, 329 6, 442	14, 969 9, 950 41, 818 5, 122 4, 170 3, 749 5, 375	25 9 78 3 2 8 18	1. 67 .90 1. 87 .59 .48 2. 13 3. 35	3, 199 1, 771 7, 080 655 498 559 1, 228	213. 71 177. 99 169. 30 127. 88 119. 42 149. 11 228. 47
Total.	1, 682	92, 455	85, 153	143	1. 68	14, 990	176. 04

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The report also gives tables showing the number of accidents from each specified cause in the different kinds of quarries and by States. The principal causes of accidents within the quarries in the order of their importance were handling rock at the face, flying objects, haulage, falls or slides of rock, machinery, falling objects, falls of persons, and drilling and channeling, and outside the quarries were flying objects, machinery, falling objects, haulage, falls of persons, and hand tools. The principal causes of fatal accidents inside the quarries were falls or slides of rock or overburden, haulage, explosives, and falls of persons, and in outside plants were machinery, haulage, falling objects, falls of persons, and burns.

#### Accidents and Deaths From Occupational Disease Among Electrical Workers

THE following statistics of fatal accidents and deaths from occupational disease among the members of the International Brotherhood of Electrical Workers for the years 1922 to 1924 are given in the Journal of Electrical Workers and Operators, March, 1925 (pp. 213, 214). Tuberculosis and pneumonia, which are considered by Louis I. Dublin to be among the most important occupational diseases, are included in this table.

FATAL ACCIDENTS AND DEATHS FROM OCCUPATIONAL DISEASE AMONG MEMBERS OF INTERNATIONAL BROTHERHOOD OF ELECTRICAL WORKERS, 1922-1924

erushous, ognisht	14 81	1922			Brul	1923			1924			
Cause of death	Line- men	- Inside men	Other occupa-	Total	Line- men	Inside men	Other oecu- pa- tions	Total	Line- men	Inside men	Other occu- pa- tions	Total
Electrocution Falls Burns Miscellaneous accidents	23 9 4 3	7 4	1	31 13 4 11	12 5 3 6	10 7 3 11	7	29 12 6 17	29 13 4 2	11 11 1 7	5 4 1 2	45 28 6
Tuberculosis	9	18 11	6 3	33 17	7 5	.19	5	31 20	5 7	22 23	1	28 30
Total	51	45	13	100	38	64	13	115	60	75	13	148

#### Lime Dermatitis

A NARTICLE by Dr. W. J. O'Donovan in the Lancet (London) of March 21, 1925 (pp. 599-602), gives clinical reports of several cases of lime dermatitis (inflammation of the skin), four of which occurred among "tunnel miners." These cases are cited as showing the influence of lime in causing serious dermatitis in various occupations in which the cause of the trouble might not be suspected.

The men working as tunnel miners are employed in digging tunnels with or without the aid of compressed-air shields. In one case in which the worker had had recurrent attacks of lime dermatitis over

a period of 15 years, during which time he had been in a hospital with it three times, the dermatitis had been diagnosed as seborrhea (functional disease of the sebaceous glands) and the occupational cause of the dermatitis had not been suspected. It was discovered that in each case he had been employed at sealing the space between the iron shields and the brickwork of the tunnels with slaked "blue lias" lime—a lime containing so much silica that it would be regarded as a hydraulic cement. This lime, which was emptied from the sacks into receptacles by the worker and carried by him with a hand scoop to a tank of water, was forced into the place to be cemented under air pressure of from 12 to 27 pounds per square inch, the high pressure increasing the amount of dust. The three other tunnel workers, all of whom were suffering from lime dermatitis, had had severe disabling attacks of it, all but one case, however, having cleared up under treatment without the general health being affected. Several cases of dermatitis among building workers working in cement were also reported and one case of housewife's lime dermatitis caused by using chloride of lime in washing clothes.

In the editorial notes in the same issue of The Lancet the fact that new causes of dermatitis are constantly arising owing to the invention of new chemical processes is pointed out and the following

comments on the difficulty of diagnosis are made:

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That a dermatitis is one of occupation may be easily missed in diagnosis, because many different agents produce a dermatitis superficially similar, or one resembling some common skin condition not regarded as due to an external irritant—witness the first case of lime dermatitis quoted in Doctor O'Donovan's article, where, in the original attack, the patient's trouble was diagnosed as seborrheic. Secondary infections with staphylococci or streptococci are frequently superimposed on a dermatitis originally due to occuaption and still further confuse the issue. Some types of trade dermatitis are, however, well marked and easily recognizable when once known to the observer; such are "chrome sores," "lime holes," "pitch skin," "tar acne," and "mule-spinners' cancer," whose names suggest their origin. The agents causing trade or occupation dermatitis are numerous, and many attempts to classify them satisfactorily have been made by different authors. They may, for instance, be divided into physical, chemical, and parasitic groups. The physical would include such causes as mechanical injury, wind, light, X rays, extremes of heat and cold, of dryness and moisture. The chemical group is by far the largest and requires much subdivision; it includes both organic and inorganic chemicals and the toxins of certain plants and trees. The parasitic group includes infections due to bacteria and fungi, and the attacks of animal parasites, such as mites. Causes coming under two or more of these headings may act together. The points of article, where, in the original attack, the patient's trouble was diagnosed as coming under two or more of these headings may act together. The points of attack of the chemical irritants are almost invariably, in the first instance, the mouths of the hair follicles, the sebaceous glands, and the sweat pores, with, in addition the natural furrows on the skin and any accidental abrasions. The in addition, the natural furrows on the skin and any accidental abrasions. The maceration of the epidermis by the action of alkali materially increases the danger of attack by chemicals.

Attention is also directed to the fact that certain workers seem to be naturally immune to such risks while others acquire immunity, although this immunity may break down under temporary ill-health or excessive exposure to the irritant. Treatment consists essentially of removal of patients from exposure to the irritant and protective and antiseptic treatment of the lesions, the possibility of the develop-

there was an average blood saturation with carbon mener

ment of malignant disease being always kept in mind.

## Menace of Tetraethyl Lead to Garage Workers 1

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A NARTICLE in the Nation's Health, March, 1925 (pp. 169-171), on tetraethyl lead, the composition added to ordinary gasoline to make "ethyl gas," points out the possible danger to garage workers from its use and the measures to be taken for the prevention

of poisoning.

Tetraethyl lead was developed after seven years of research and its discovery was recognized as one of the greatest accomplishments of the year in chemical engineering. The use of this "anti-knock" compound has made it possible to build and operate a high-compression motor that will double the utilization of the latent power in gasoline, so that it is possible to get twice the mileage from a gallon of gasoline. "Standard automobiles in which the compression had been raised from 80 pounds to 160 pounds per square inch, when run on ethyl gas, climbed steep grades in high speed at less than 10 miles an hour without even a trace of a knock and without the slightest injury to the engine." From the efforts spent in developing this compound and its success, it is evident that the use of tetraethyl lead in motor gasoline has come to stay and therefore it is only a question of furnishing adequate protection to workers coming in contact with it.

During 1924 ethyl fluid was distributed at filling stations from onequart steel bottles, but it is expected that eventually it will be added to the gasoline at the refinery. Although during 1924 hundreds of thousands of gallons of ethyl gas had been dispensed at filling

stations not a single case of poisoning from it was reported.

The growing use of the gas, however, and the consequent increasing number of garage workers who will be exposed to any hazards involved in its use makes it important to determine whether or not such hazards There are three possible sources of danger to garage workers from ethyl gas: First, inhaling the motor exhaust; second, handling engine parts covered with lead; third, spilling the gasoline on the hands or clothing. Experts in the United States Bureau of Mines have studied the possibility of contracting lead poisoning from inhaling the exhaust from motors using ethyl gas. It has been shown that a large percentage of the lead remains in the engine and exhaust pipes, tests of the gasoline used during one month showing that 80 per cent could be recovered from deposits in the engines and pipes. The largest quantity of lead dust found was 0.216 mg. per cubic meter of inhaled air and tests on the men showed that most of the inhaled lead, being very finely divided, was again exhaled. The maximum amount of lead retained in the system was 27 per cent and the average 15 per cent, and it was considered that a good deal of this might be retained in the nasal passages and throat, from which it would be swallowed or expectorated.

In the course of these tests various animals were exposed for six months to exhaust gases containing 0.2 mg. of lead or less, but none of them showed any evidence of lead poisoning. These animals did, however, show definite evidence of carbon monoxide poisoning, as there was an average blood saturation with carbon monoxide of 10

<sup>&</sup>lt;sup>1</sup> See Monthly Labor Review, February, 1925, pp. 173, 174.

per cent, indicating that the carbon monoxide hazard in garages is much more important than a possible lead hazard from ethyl gasoline.

There is said to be little danger to the general public from the use of the lead, as the quantity deposited on the streets from the exhaust gases is so small as to be negligible. The danger to repair men from handling engine parts is, however, very real, as an average car would use during a season about 500 gallons of ethyl gas containing 3.3 pounds of lead, so that it is possible that nearly 2 pounds of very finely divided and poisonous lead would be deposited on the cylinder and the exhaust pipes. It is important that separate work benches should be provided for repair of these parts and that care should be exercised to remove the poisonous lead products from shop apparatus and from clothing and hands. To this end every repair shop should

be provided with hot running water.

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The third possible hazard is the danger of absorption of the tetraethyl lead through the skin, since spilling of gasoline at filling stations can never be entirely prevented. It has not been definitely proved that there is enough tetraethyl lead in ethyl gas or in the vapors rising from ethyl gas to cause poisoning during distribution of the product to consumers, but the question is now being studied. The lead is an oily compound which is readily absorbed by the skin, and as it is less volatile than gasoline it remains on the hands longer. It is a cumulative poison, causing first insanity and then death, but whether the amount in the gasoline is great enough to produce this effect is not known, although it is considered advisable if a filling station attendant or consumer spills ethyl gasoline on his hands to wash them immediately, or if it is spilled on the clothes to change them at once.

Warning is given by the writer also against the practice which has obtained in recent years of using motor gas to clean clothing. There is a possibility that absorption of lead remaining on the garments after cleaning might take place and also inhalation of the poisonous

gasoline fumes might be dangerous.

The writer points out that the casualties reported in the press in connection with the use of tetraethyl lead were all in chemical factories where the product was being manufactured and that in Bayway, N. J., where five deaths occurred, the work was being done in an experimental plant in which the specific provisions of the labor law that efficient exhaust devices for removing the fumes at the point of origin had been complied with, although the larger plant which was to have been built would have incorporated improvements in design affording better protection to the life and health of the workmen. It is suggested that makers of tetraethyl lead make an effort to find a chemical that will react readily with it to form a less poisonous lead compound. Such a chemical could be used in washing tetraethyl lead from the hands of the workers, and in removing it from floors and apparatus. The air of the workroom might also be purified by adding hydrogen sulphide or chlorine, provided toxic concentrations are not exceeded, or by the use of apparatus for adding ozone to the air.

#### Effects of Brass Dust on Industrial Workers

A N INQUIRY relative to the harmful effects of brass dust on membranes of the body and particularly its effect upon the eyes having been received by the Bureau of Labor Statistics, the following summary of the information compiled in reply is published for the benefit of the readers of the Monthly Labor Review.

Consultation of the various works on industrial diseases fails to show that the work of brass workers has been generally associated with disease of the eyes. Kober and Hayhurst, mention catarrhal affections of the eyes and respiratory passages, headache, and gastric derangements as being found among workers using ordinary gold bronze powder, which is composed of copper and zinc with traces of lead, tin, arsenic, and iron and Thompson states that double vision is commonly associated with "brass chills" among those working in brass and brass polishing.

The following statement in regard to the harmful effects of brass is taken from Industrial Health, by Kober and Hayhurst (pp. 341, 342):

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Brass dust (grinders, polishers and buffers) does not produce "brass founders' ague," and has only the harmful effects of metallic dusts in general. The lead in the alloy dust may produce its symptoms in very susceptible persons (?). Brass in any condition short of the recent vaporous state of its components produces no intoxication peculiar to itself.

The essential health hazard from brass is the inhalation of the metallic fumes. Analyses of brass fumes show:

Substance	Deposits	from flues	Analysis of fumes	Bench settling	
Substance	A	В	C	D	
Zine oxide Lead oxide Iron oxide Copper oxide Cadmium oxide	32. 13 . 31 2. 43 2. 85 1. 56	24.74 1.92 2.50 .89	28. 82 .00 2. 78 (copper) 1. 71 (moisture) 9. 64	(zinc) 44. (lead) .	

Insignificant traces of arsenic, nickel, and manganese may be present, and Sigel found the chills where copper was absent in the fumes. Symptoms traceable to phosphorus in phosphor-bronze and manganese in manganese-bronze have never been reported. Antimony poisoning occurs, however, among type-metal refiners and melters, and dermatitis and "biting" nasotracheitis from this should be distinguished from "brass itch" and "zinc asthma," respectively. Braziers and hard-solder workers, especially where electric welding or the modern blowpipes (oxy-acetylene, oxy-hydrogen) are used, may suffer greatly from metal chills due to volatilization of the alloys worked upon.

blowpipes (oxy-acetylene, oxy-hydrogen) are used, may suffer greatly from metal chills due to volatilization of the alloys worked upon.

Chronic effects of brass poisoning.—In Chicago the fact that 85 per cent of 1,761 foundry workers were under 40 years of age, and only 1 per cent over 50 years, was explained by employers as due to "slowing up," or beginning increpitude, and by workmen, as gradual incapacitation from the inhalation of brass fumes and the strain of the work. The constant intake and elimination of unusual amounts of zinc and copper from the system along with the repetition of brass chills or the constantly forced immunity to the same are enough to

<sup>&</sup>lt;sup>1</sup> Autogenous welding.—Jennie Adler-Herzmark (Zentralbt. f. Gewerbehy., May, 1921), investigated a number of small industries in which autogenous welding is done and found that acute attacks resembling brass founders' ague, and probably identical with it, are always associated with the use of hot brass or zinc. Zinc vapors were often visible.

cause degenerative diseases in themselves even though the immediate afflictions above mentioned are overlooked. Chronic bronchitis or "asthma," emphysema, and pulmonary tuberculosis are very common. Older workers invariably complain of dyspepsia, "biliousness," occasionally of gallstones and they are often icteroid [jaundiced]. Constipation is the rule among them and hemorrhoids are frequent complaints. Pyorrhea alveolaris, carious teeth, gastroenteritis, sallow complexion and anemia, ill-nourishment and emaciation, chronic alcoholism, Bright's disease, nervous and heart diseases are all above the average.

# Effect of Noises on the Hearing of Workmen

Many letters are received by the Bureau of Labor Statistics asking for information relative to different industrial hazards and occupational diseases. The answering of these letters often involves considerable research and frequently the subject appears to be of sufficient interest at the time to justify publishing the results of these researches in the Monthly Labor Review. Several inquiries having been received recently in regard to the effect of noises on the hearing of workmen, the following summary of the effects of loud or long-continued noises in producing injuries to the ear has been made from standard works on occupational diseases.

The special causes of an occupational origin which injuriously affect the hearing are produced by trauma or are the result of irritation in the mucous membrane of the nose and nasopharynx. Any inflammation in these parts has a tendency to involve sooner or later the organs of hearing, and among the trades which must be included among the industrial causes of ear diseases are those in which there is exposure to irritating dusts and fumes, to extremes or sudden changes

of temperature, and to excessive humidity in the atmosphere.

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In addition to these causes of impaired hearing, the sound-transmitting apparatus of the middle ear may be injuriously affected by certain special conditions incidental to the trades, such as the use of chemical poisons which show predilection for the auditory end organ and nerve; sudden excessive change in atmospheric pressure, as in the concussion from explosion; and exposure to noises which overstrain the delicate filaments of the auditory sense organ. There are trades in which more than one of these conditions are present, as in the case of machinists, who are exposed to irritating dusts in addition to continuous disagreeable noises; aviators, who in addition to the continuous noise of the motor are subjected to sudden changes of temperature and barometric pressure; and railway employees, who are exposed to much soot, dust, and bad weather and to the noise of the shrill whistle and the moving train.

Sudden variations in air pressure such as unexpected explosions in mining, blasting, and tunneling, or the near-by discharge of artillery, especially in inclosed spaces, may result in rupture of the eardrum. Ruptures of this kind are usually irregular in outline. The torn edges bleed freely and the coagulation of the blood assists in joining together the edges with resultant speedy healing, which is less likely to be the case when the wound is produced by direct contact and possible infection. Such ruptures are of more frequent occurrence

<sup>&</sup>lt;sup>1</sup>Thompson, W. Gilman: The Occupational Diseases. New York, D. Appleton & Co., 1914. pp. 571-574. Kober and Hayhurst: Industrial Health. Philadelphia, P. Blakiston's Son & Co., 1924. pp. 890-904.

in the Navy than in the land artillery service owing to the condensation of the concussive effect in the circumscribed spaces on shipboard, and for the same reason are more frequent in mining operations than from explosions in open trenches or on the level in the open air. The effect of such explosions on the enternal ear has been shown by different observers to be less severe and more rapidly recovered from if the explosion produces rupture of the drum membrane.

Caisson workers are liable to impaired hearing resulting from too sudden return from continued exposure to increased atmospheric pressure to normal pressure, and divers and submarine workers are subject to congestion of the mucous layer of the tympanum.

The following statement by Thompson shows the effect of intense sounds, particularly those of high pitch and replete with metallic overtones, on the hearing of workers in various occupations:

Labyrinthine <sup>2</sup> disease, in so far as it is occupational, is mainly due to excessive noise. It may be temporary or chronic and may result in permanent deafness. Vertigo is a common symptom of it, with sometimes nausea and vomiting, with faintness.

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The effect of noise upon the delicate internal ear presents an interesting study. It has been found that the volume of sound, i. e., the loudness of the noise, has less influence than the quality in causing deafness. A reverberating noise, long continued in a confined space like the inside of a boiler which is being riveted, is particularly harmful, but damage also occurs to the labyrinth from explosions, as when firing big guns, especially in the turrets of warships, testing high-grade explosives, mine explosions, etc. The deafness produced by constant noise of high pitch, but not necessarily extremely loud type, is common among loom tenders, spinners, and railway engineers, and may occur in telegraphers. A large proportion of railway engineers, fully 45 per cent, if they have been employed on engines for a number of years, have more or less labyrinthine deafness. This is especially true of those employed on oil-fed locomotives, which are more noisy than those which burn coal, on account of the roar of the boiler fires. To this must be added the noise of whistles, air brakes, and the general pounding of the train on the rails. Frequently, immediately after leaving the engine after a long run, the hearing is more defective than after rest.

In many cases of occupational deafness the patient is annoyed, even when at rest, by buzzing or ringing auditory sensations. Occupational labyrinthine deafness is more pronounced for high than low notes, so that the patient may be able to hear low-pitched voice sounds while he is, perhaps, completely deaf to the high pitch of a shrill whistle.

The men who use automatic rivet hammers in the fastening of iron girders on bridges and buildings are subjected to as much noise as boiler makers, except that, not working in a confined space, there is less reverberation. "Boilermaker's deafness," as it is technically called, is usually of labyrinthine type, and in time the high-pitched notes damage the labyrinthine structures permanently. Experiments with animals have confirmed such changes as resulting from high rather than low pitched noises. Unfortunately, there seems to be no remedy for this hazard, for not alone the ears, but the temporal and other cranial bones are set in acute vibration, and, if a man must work inside a boiler or gun turret, he has to accept the consequences.

In iron and steel foundries noise of trip hammers induces both acute and chronic deafness from the excessive vibrations which affect the internal ear. Gas explosions in the foundries may give rise to runture of the tympanum.

Gas explosions in the foundries may give rise to rupture of the tympanum. Among 75 smiths employed in manufacturing railroad equipment, Gottstein and Kayser found 30 with serious impairment of hearing. Barr found among 100 kettlesmiths that only about 9 per cent had normal hearing, and, among 31 more, Habermann could discover none whose hearing was not impaired. Among 40 coppersmiths Holt found 36 with abnormalities of hearing. The deafness is bilateral, but the ear usually nearest the loud noises is found chiefly affected. Subjective noises are heard in about half the cases and vertigo is common.

Most of the authors referred to locate the difficulty in the internal ear. In an autopsy upon one of his patients Habermann found atrophy of the filaments of the auditory nerve.

<sup>&</sup>lt;sup>2</sup> The labyrinth is the series of cavities of the internal ear.

It has been proved by clinical observation and experiments upon animals that it is not tones of medium low pitch, those most readily transmitted by bone conduction, that cause the progressive impairment of hearing in most of the cases having an occupational origin, but those of comparatively high pitch which are conveyed to the internal ear more directly by the sound-transmitting apparatus of the middle ear. The majority of the experiments upon animals included the use of very high-pitched tones produced by whistles, organ pipes, high-pitched metallic bodies of various kinds, and metallic sounds of lower pitch which were similar to the sounds to which factory operatives, machinists, and boiler makers are exposed. The results of these observations showed that exposure of one or both ears continuously for a period of several days or weeks was followed by progressive degenerative changes in the internal ear corresponding to the intensity and duration of application of the It was also found, under conditions approximating those to which boiler makers are subjected, that where one ear was closed the degenerative process was present in the ear remaining open and where both ears were closed the degenerative process was not exhibited in either ear. Subjective noises almost invariably accompanied impairment of hearing, but dizziness or vertigo was present only in the more advanced cases in which there was a marked decrease in the upper tone limit in hearing. Dizziness as an accompanying symptom is found more frequently among mill and factory operatives whose work subjects them to vibration from the machinery in addition to the noise.

The preventive measures advocated by Kober and Hayhurst are as

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Experience in the Army proved conclusively the value of protective devices in lessening casualties due to concussion. Here the main problem is to get an ear protector that allows enough hearing to hear orders and at the same time

save the labyrinth.

In the trades the problem is to get a simple convenient protector that the workman will use. Hard metallic devices, which in case of accident might be driven inward, are generally to be avoided. Cotton wool is a very satisfactory protector when moistened with glycerine or vaseline, or worked up with some material like plasticene. When any protector which completely fills the canals has remained in place a long time the warm air confined within expands and produces an unpleasant sensation. Removal at intervals for ventilation is therefore advisable.

The sound-transmitting apparatus of the middle ear serves the double purpose of sound transmission and of protection to the transmitting and perceptive mechanism beyond it; but is capable of exerting this office only for periods of limited duration and, under conditions of continuous subjection to loud sounds, covering a limited portion of the audible scale, in itself becomes fatigued and incapable of exercising its protective office. The obstacle presented to the passage of sounds of short wave lengths through the soft tissues of the body affords a certain measure of protection in one direction, and the obtunding of the external auditory canal prevents the influx of the objectionable sound through that natural passage; but this serves as only a partial protection and an important step in the welfare work of the trades will be in the elimination of that offensive and injurious by-product of mechanical action—sustained and unnecessary noise.

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## Sanitation in the Modern Bakery 1

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THE changed methods in the manufacture of bread which have developed in the past decade are the result primarily of the enactment of legislation covering the sanitary production of food by all the progressive States. Much of the progress, however, has come from within the industry itself, as progressive bakers, realizing that the confidence of the consumer is necessary to the growth of their business, have been active in securing legislation

and regulation of the industry by health officials.

While the baking industry was one which for centuries had been carried on under most insanitary conditions and in which the workers as a class were short lived, the modern bakery presents no resemblance to the shops of even a few years ago. A law passed in Indiana in 1919 and one passed later in Massachusetts are practically identical. They provide that rooms used for the production or sale of bakery products shall be clean and well lighted and ventilated; that there shall be adequate plumbing and drainage facilities, including wash sinks and toilets in rooms having no direct connection with the factory and salesrooms; and that the floors, walls, and ceilings shall be kept clean and sanitary and all doors and windows screened. These laws also provide that the workrooms can not be used for any other purpose, so that the bakery is no longer used as a sleeping and living room. Special rooms must also be provided for changing and hanging wearing apparel and these rooms must be kept clean and well ventilated. One of the most important features of these laws is the provision that all persons intending to work in a bakery must have a thorough physical examination so as to eliminate those with contagious or infectious diseases, and that they must submit a certificate of health before going to work. A further provision of the Massachusetts law is that no new bakery can be opened until the building plans and the equipment have been approved by the local board of health, and if after being opened a bakery is not properly

operated it may be closed by the health authorities.

While these laws relate to but two States, general conditions are said to be satisfactory, the writer stating that "no industry has made greater progress toward cleanliness and quality than that of the

bread baker.

## Industrial Health Promotion in Small Plants

A NARTICLE by Dr. Carey P. McCord in the American Journal of Public Health, April, 1925 (pp. 299-302), summarizes a report on the health work carried on in small-scale industries which was read before the industrial hygiene section of the American Public Health Association at its fifty-third annual meeting held in Detroit, Mich., in October, 1924. The report covered plants employing less than 500 workers in manufacturing, mercantile, mining, and transportation industries. The majority of the 41,000,000 gainfully employed persons in the country are employed in these small

<sup>&</sup>lt;sup>1</sup> The Nation's Health, March, 1925, pp. 183-185: "The sanitary bakery safeguards the common health," by H. E. Barnard.

plants. Ninety-nine per cent of the factories employ 500 persons or less and 60 per cent of the factory workers are in these establishments—a condition which is reflected in the other industries.

The medical department has become a definite part of the organization of large industrial plants, and its value to the manufacturer, the wage earner, and the community is well recognized. The factory medical departments insure for the employees care in sickness or injury, sanitary working conditions, education in safety measures, and placement according to the physical and mental capabilities of the individual worker. Because of these immediate returns the medical work justifies and pays for itself year by year. The experience of large industrial enterprises has been such that it seems that the daily assembling of large numbers of persons for the purpose of work offers the best opportunity for the promotion of measures to conserve the health of adults. It is important, therefore, to devise means by which this constructive health work may be carried into the small plants which, as has been shown, employ such a large proportion of the wage earners of the country.

At the present time the medical work in small plants is in general confined to the care of emergency cases, usually by sending the sick or injured person to some neighborhood physician or calling such a physician into the plant. It is obvious that although such physicians may be well qualified to take care of medical or surgical conditions they are not acquainted with trade processes and industrial health hazards and their work ends with the particular case for which they

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The minimum essentials of industrial health service include carrying out some or all of the medical activities on the factory premises, and, in addition to the emergency relief measures, at least part of such related measures as periodic physical examinations, accident prevention, health education, dental care, etc. Attention should also be paid to the physical conditions of the plant, such as lighting, air conditions, drinking water, etc., and the personnel in charge of the medical work should be familiar with the diseases and injury hazards peculiar to the particular industry and with the means for their Daily dispensary service of at least one hour should be provided in plants in which there are 100 workers or over, and detailed medical records which may prove of value to the employer or employed in the settlement of claims or that may prove of value in the subsequent medical experience of the worker should be kept. All medical work carried out in the plant dispensary should be without cost to the employees.

About 350 personal and circular letters were sent to industrial physicians, Government departments, universities, etc., for the purpose of determining the present practice in regard to the provision of medical service in small plants. Answers were received to about 16 per cent of the letters sent, and from these replies, together with the information obtained from other sources, the following general conclusions were drawn which are believed to represent the situation

at the present time:

Less than 1 per cent of the sizable small plants maintain adequate medical

departments.

2. Physical conditions and general health conditions of workers are in a lower

3. Physical conditions and general health conditions of workers are better to. day than ten years ago.

4. Industrial commissions, factory codes, factory inspection, group insurance national safety organizations, etc., have been of benefit in the health conservation in small factories.

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5. Industrial injuries are generally well cared for at the present time.6. The personality, the integrity, and ability of the physician in charge is the largest single factor in the promotion of industrial medicine.

7. No exact data on small plant medical departments are available from such organizations as the United States Public Health Service, Department of Labor, The National Safety Council, Conference Board of Physicians in Industry.

The plans in force in different places for providing the needed

medical service in small plants include—

1. Employment of a physician on a full-time basis, his surplus time to be used in such other activities as employment management. safety supervision, and personnel work. This plan has been most successfully employed in isolated communities, such as mining towns, where the families of the workers also need medical service. narily, the services of a full-time physician when limited to the plant are necessary when the number of employees is less than 300.

2. Association of several plants in providing medical service and dispensaries. This plan has been successful in a few cases, but in others has failed as the result of unequal amount of cooperation. The Harvard Mercantile Health Work in Boston is an example of

this type of service.

3. Association of a group of industrial physicians, hygienists, safety engineers, statisticians, etc., who furnish medical supervision suited to the needs of a number of small plants. Under this plan a fixed time is spent daily in each plant, provision being made for caring for emergency cases, and sanitary and safety investigations are made. This system supplies, at a low cost to the manufacturer, the services of persons qualified in a variety of industrial health and personnel problems. Examples are the New York Industrial Health Bureau and the Industrial Health Conservancy Laboratories of Cincinnati.

Other health activities, which while not primarily concerned with small plants nevertheless contribute to a solution of the problem, are the Workers' Health Bureau for trade-unions which is now in operation, and the services developed in nearly every industrial community which are limited to the care of such emergencies as are covered by the State compensation acts. The Mutual Liability Co. of Detroit and the Industrial Medical Service of California are examples of such enterprises, which, even though effective in carrying out surgical relief for injured workmen, do not, however, reach the fundamentals of health conservation.

#### Industrial Accidents in Illinois Coal Mines, 1924

CCORDING to the Illinois coal report for 1924, 184 coal miners were killed and 3,895 injured during the year, as compared with 161 killed and 3,615 injured during the previous year.

<sup>&</sup>lt;sup>1</sup> Illinois. Department of Mines and Minerals. Forty-third annual coal report of Illinois, 1924. [Spring-field], 1924, pp. 90-311.

Of the fatal accidents, 176 took place underground, 4 in the shaft, and 4 on the surface. The largest number of underground accidents (76) was caused by falls of coal, rock, etc.; 40 were due to gas explosions, 37 to mine cars and locomotives, 10 to explosives, 5 to electricity, and the remaining 8 to mining machines and various other causes. Of the 184 miners killed, 115 were married and left 268 dependents.

Of the 3,895 men who sustained injuries causing a time loss of 30 days or more, 471 did not return to work. The others had a combined time loss of 190,582 working-days, or an average of 55.66 days per

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By far the most important cause of the nonfatal injuries was falls of roof and sides (1,069); the next most important cause was pit cars,

which caused injuries to 777 men.

The following table, taken from the report, shows for specified periods the number of deaths and injuries per million tons mined and the ratio per thousand men employed:

NUMBER OF DEATHS AND INJURIES PER 1,000 MEN EMPLOYED AND PER MILLION TONS MINED, IN SPECIFIED PERIODS, IN COAL MINES OF ILLINOIS

THE PARTY OF			Deaths			Injuries		
Period	Number of tons mined	Number of em- ployees	Num- ber	Per 1,000 em- ployed	Per million tons mined	Num- ber	Per 1,000 em- ployed	Per million tons mined
1883-1893	156, 857, 041 233, 508, 512 477, 057, 031 718, 887, 322 72, 308, 665	213, 143 399, 290 697, 527 880, 344 99, 765	648 900 1,990 1,901 184	3.0 2.3 2.9 2.2 1.8	4.1 3.9 4.2 2.6 2.5	2, 769 5, 200 7, 147 25, 196 3, 895	13. 0 13. 0 10. 2 28. 6 39. 0	17. 7 22. 3 15. 0 35. 0 53. 9

# Industrial Accidents and Diseases in New Jersey, 1923-24

THE report of the New Jersey Department of Labor and its several bureaus for the fiscal year 1923-24 contains accounts of the work done along the lines of industrial accidents, hy-

giene, etc., in the State.

During the year in question a special effort was made to enforce the 1912 law authorizing the department to order the installation of ventilation apparatus and dust-removal devices in workrooms where industrial dusts, noxious fumes, and excessive heat are present to a degree jeopardizing the health of the workers. The department "has proceeded on the theory that the proper place to control poisonous gases or dust is at the point of origin, and if this can not be done, then mechanical devices must be installed that will provide adequate protection for the workers."

In many cases it has been necessary to rearrange completely the plant processing and to depart radically from traditional plant structural designs. The workshops of New Jersey are now being constructed in conformity with architectural principles that take into consideration the question of proper lighting and ventilation. The dark, gloomy workshops that formerly prevailed are being

rapidly replaced by buildings of more modern design.

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Occupational diseases, to the number of 48 cases, were reported during the year. These included 3 cases of anthrax, 38 cases of lead poisoning, 3 cases of benzene poisoning (from paranitranilin, mononitrochlorbenzol, and anilin), and 4 cases of mercury poisoning. Also, several cases of necrosis (gangrene) of the jawbone were reported as having occurred among workers employed in a plant manufacturing a radio-active luminous paint compound. These workers were employed in painting dials for clocks with a luminous paint. As the symptoms in all the cases seemed to be the same—necrosis, extreme pallor and anemia, and in some cases dyspepsia—"a strong suspicion" was aroused that the necrosis was caused by the materials handled, the whole matter is now under investigation.

During the year 48,241 industrial accidents involving a time loss greater than the remainder of the day on which the accident occurred were reported, a decrease of 1,051 as compared with the previous year. The statement below shows the number of accidents, by industrial groups:

	Fatal	Nonfatal
Factories and workshops	111	22, 055
Building and construction	67	11, 492
Mines and quarries	12	434
Miscellaneous	93	13, 977
	100	
Total	283	47, 958

In factories and workshops the greatest number of deaths (14) was caused by explosions of powder, dynamite, etc.; followed by falls of persons, which caused 10 deaths. Power-working machinery caused the greatest number of nonfatal injuries (7,846). Other important causes were handling of objects (4,897), falling objects not being handled (2,577), and stepping upon or striking against objects (1,709). The chemicals and chemical products industry was chargeable with the greatest number of deaths (39) in the factories and workshops group. The next largest number of deaths (11) and also the greatest number of nonfatal accidents (3,893) occurred in the metal-goods industry; this latter number was very nearly approximated in the machinery and instruments industry which was responsible for 3,587 nonfatal accidents.

The largest number of fatalities (12) in building and construction was caused by falls from scaffolds, ladders, etc. No other cause was responsible for as many as 10 deaths, although 8 deaths occurred in railway operations, and 7 were due to the collapse and fall of material. This last cause—collapse and fall of material—was responsible for 4,903 nonfatal accidents, and handling of sharp objects for 1,674.

The chief cause of both fatal and nonfatal accidents in mining and quarrying was falls of ore, rock, etc., causing 7 deaths and 95 nonfatal injuries.

In an endeavor to reduce the accident rate, safety meetings "of an industrial educational character" were held in nearly all of the industrial centers of the State, at which lectures were given and motion pictures shown "depicting dramatic phases of general accident-prevention work," a special effort being made to show pictures with specific bearing on the industries under discussion at the particular meeting.

The report of the New Jersey State Rehabilitation Commission, which is incorporated with that of the department of labor, shows that during the year 2,862 persons were given medical and physical treatment, of whom 75 per cent were workers injured in industry. "As a result of improvement by physical rehabilitation, most of the injured were enabled to resume their former occupation."

#### Fatal Accidents in Canada, 1924

THE March, 1925, issue of the Canadian Labor Gazette, published by the Dominion Department of Labor, contains the report of the number of fatal industrial accidents occurring in Canada

during 1924 (pp. 319-326).

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The record shows a smaller number of fatalities in 1924 than in the previous year, which is in part accounted for by a reduction in the number of employed persons. In both years the logging industry held the highest fatality record in proportion to the number employed while nonmetallic mineral mining and quarrying was second.

The following tables show the fatal industrial accidents in Canada

in 1923 and 1924 by industry and those in 1924 by causes:

FATAL INDUSTRIAL ACCIDENTS IN CANADA IN 1923 AND 1924, BY INDUSTRY

	192	31	1924		
Industry group	Number	Per cent of total	Number	Per cent of total	
Agriculture Logging Fishing and trapping Mining, nonferrous smelting, and quarrying  Manufacturing Construction Transportation and public utilities Trade Service Miscellaneous	129 195 29 187 198 177 372 24 61 40	9. 1 13. 8 2. 1 13. 2 14. 0 12. 5 26. 3 1. 7 4. 3 2. 8	93 209 33 173 163 195 310 12 27 55	7. 3 16. 5 2. 6 13. 6 12. 8 15. 4 24. 4 . 9 2. 1	
Total	1, 412	100. 0	1, 270	100. 0	

#### FATAL ACCIDENTS IN 1924, BY CAUSE

Cause	Num- ber	Per cent of total	Cause	Num- ber	Per cent of total
Prime movers	48 46 45 131	3. 8 3. 6 3. 5 10. 3	Tools	8 236 48 179 219	0.6 18.6 3.8 14.1 17.2
being struck by objects Falling objects Handling objects	25 239 46	2. 0 18. 8 3. 6	Total	1, 270	100.0

Revised figures.

Fatal Accidents in Nova Scotia Coal Mines, 1908 to 1924

THE Department of Public Works and Mines of Nova Scotia, in its annual report on mines for 1924, presents data as to fatal accidents in coal mines in Nova Scotia in 1923 and 1924, classified by cause, and comparative data for the United States for 1923, which show that falls of roof or face, mine cars and locomotives, and gas and dust explosions caused the greatest proportion of such accidents in both countries. The number and per cent of the fatal accidents attributed to the various causes are shown in the following table:

NUMBER AND PER CENT OF FATAL ACCIDENTS IN COAL MINES IN NOVA SCOTIA, 1923 AND 1924, AND IN THE UNITED STATES, 1923

		mines				
al-man subsequentiality from	THE WA	Nova	Scotia	atte a	United	States,
Cause O do till out a	1923		1924		19:	23
paroiding payment agree agreement	Num- ber	Per	Num- ber	Per cent	Num- ber	Per
Underground: Falls of roof or face. Mine cars and locomotives. Gas and dust explosions. Explosives. Electricity. Miscellaneous.	19 8	59. 4 25. 0	20 4 4 1 1	64. 6 12. 9 12. 9 3. 2 3. 2	1,158 413 372 114 75 163	47.2 16.8 15.1 4.6 3.3 6.6
Total	27	84.4	30	96.8	2, 295	93.6
Surface: Haulage and cars Machinery Miscellaneous	1 3 1	3.1 9.4 3.1	1	3. 2	35 26 • 96	1.4 1.1 3.9
Total	5	15.6	1	3.2	157	6.4
Grand total	32	100.0	31	100.0	2,452	100.0

The following table shows a comparison of coal-mine fatalities per 1,000,000 tons of coal and per 1,000 men employed, for Nova Scotia and the United States, over a period of 17 years:

FATAL ACCIDENTS IN COAL MINES OF NOVA SCOTIA AND OF THE UNITED STATES, 1908 TO 1924

	Fatal accidents in coal mines							
Year		Nova Scoti	United States 1					
Shrow on expension and Three lands	Number	Per 1,000,000 tons <sup>1</sup>	Per 1,000 men employed	Per 1,000,000 tons 2	Per 1,000 men employed			
1908	43 34 31 36 34 48 37 41 29 87 122 20 26 29 19 32	6. 09 6. 09 5. 05 5. 17 4. 55 5. 95 4. 71 5. 74 3. 96 13. 38 20. 68 3. 56 4. 08 4. 81 3. 66 4. 62 5. 57	3. 32 2. 81 2. 81 2. 81 2. 56 3. 51 2. 53 3. 27 2. 65 8. 41 11. 77 1. 86 2. 30 2. 36 1. 55 2. 50	6. 05 5. 79 5. 66 5. 48 4. 41 4. 89 4. 78 4. 27 3. 77 4. 14 3. 80 4. 18 3. 45 3. 92 4. 15 3. 83	5 54 4 00 5 31 4 97 4 46 4 70 4 66 3 4 25 3 99 4 27 4 11 4 00 2 9			

<sup>&</sup>lt;sup>1</sup> Figures from U. S. Bureau of Mines' statistics.

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# Industrial Health Program of a Canadian Paper Mill

AN ACCOUNT is given in The Nation's Health, March, 1925 (pp. 172-175), of the work of a pulp and paper mill in Canada in safeguarding the health of employees and their families.

The town in question is a company town with about 4,100 inhabitants, all the houses being owned by the company and rented to the employees. In 1922 a "mutual interest" board was formed consisting of an equal number of representatives of the men and of the management. This board meets every three months and recommendations have been made to the company in regard to such subjects as apprenticeship, pensions, vacations, first aid, and the work of the community and plant nurses.

The company maintains an emergency hospital in charge of a physician, an industrial nurse, and a community nurse. The physician not only looks after the health of the men but has also the

sanitary supervision of the plant and the town.

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5 54 1.00 5.31 1.97 1.46 1.70 1.66 1.40 1.25 3.94 1.27 78 Any employee who, while working, gets the least abrasion of the skin is required to report at once to the nurse for dressing, or if the hurt is sufficiently serious, to the doctor. The result has been an almost complete elimination of infections. In an eight months' period for which records were kept there were 63 lost-time accident cases which resulted in 982 days of lost time and 1,115 minor cases which required 1,088 redressings, an average of only about two dressings per case for these minor injuries. There was only one case of infection and this was the only case of injury in which the instructions to report to the dispensary were not followed. Infection represented only 1.6 per cent of all lost-time accident cases as compared with 12.5 per cent in the 10 months' period from October, 1922, to August, 1923.

All men with any symptoms of sickness are urged to report to the dispensary at once; and though few took advantage of this opportunity at first, the number of cases of sickness reported is now considerably in excess of the accident cases. During the eight months' period the nurse cared for 212 cases of minor ailments and referred

94 cases to the doctor for diagnosis and treatment.

If an employee is absent from work for two successive days the community nurse is notified and she visits the worker's home for the purpose of assisting the man and his family. In 182 cases the plant nurse was advised of cases of sickness in the homes of employees and these homes were visited at once by the community nurse. The work of the community nurse includes also work in preventing illness among the children in the preschool age and regular visits to the schools, to which she devotes about half of her time. During a four months' period the nurse inspected 3,633 children, referred 353 to the doctor and 274 to the dentist, and made 1,415 home visits. The management, with the cooperation of the school board, has also provided the services of a dentist one day a week to take care of the children's teeth and a monthly clinic for treatment of children with defective sight.

as adults. Among these adults were 6 wirls 15 years old, 8 aged if

## Fatalities in English Mines in 1924

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THE Labor Magazine (London), in its issue for March, 1925, asserts that a preliminary statement issued by the mines department of the Ministry of Labor shows that the number of miners killed by accidents in British coal mines in 1924 was 1,192 as against 1,087 in 1923. By causes these fatalities were as follows:

Fire-damp or coal-dust explosions	35
Falls of ground	598
Shaft accidents	60
Haulage accidents	259
Miscellaneous	125
Surface accidents	115
Total	102

#### Fatal Accidents in Mines in India

looks after the health of the men but has also the

THE report of the chief inspector of mines in India for 1923 shows that in that year there were 237 fatal accidents, causing 387 deaths. The causes of these deaths were as follows:

resulted in 982 days of lost time and L.I.L. migora-	Number of
Underground:	deaths
Explosions and ignitions of fire damp	75
Falls of roofs and sides	
In shafts	32
Suffocation by gases	12
Explosives	11
Haulage	29
HaulageUnderground machinery	2
Unclassified	11
Surface:haven	
Machinery and hoilers	2
Surface railways and tramways	4
Electricity	3
Miscellaneous	_ 13
ourse enred for 212 cases of minor ailments and syde	-
Total	_ 387

Coal mines accounted for the great majority (382) of these deaths, no other kind of mine being responsible for as many as 20 deaths. Unfortunately, the coal mines are becoming increasingly dangerous. In 1923 their death rate from accidents was 1.65 per 1,000 persons employed above and below ground, while for the preceding five years it had been 1.10. The death rate per 1,000,000 tons of coal raised was 17.69, while that of the preceding five years was 11.50.

The gradual increase in the rate of accident is lamentable. It is due to the increasing dangers of deeper and more intensive mining and a greater use of machinery. The training of new workers should receive more and more careful consideration, for during the first few weeks of employment miners are more liable to accident than later when they have become accustomed to working conditions.

Of the 387 persons killed, 297 were males and 90 females. Of those killed underground, 2 are classed as children under 12, the remainder as adults. Among these adults were 6 girls 15 years old, 8 aged 14,

7 aged 13, and 1 aged 12. One of the two classed as children was a gill of 10 and another a boy of 7. Recent legislation will, it is hoped, in prove the situation indicated by these figures.

So far there has been no statutory interference with labor conditions in Indian mines, but on February 23, 1923, the Governor-General gave his assent to a new mines act (Act IV of 1923) by which, with effect from July 1, 1924, no person may be employed underground for more than 54 hours in the week, and no child under the age of 13 years may be employed in a mine or be allowed to be present in any part of a mine which is below ground. As to how far mine owners have prepared themselves for these changes, it may be mentioned that at a recent fatal accident inquiry it transpired that the deceased had been at work for 14 hours; the superintendent of a large group of collieries considers that the number of children underground in mines was never so large as at the close of the year.

median and expense costs. This resulted in a sight advance. B mated ratio of 1924 rates to those of 1973 being on the manual to the measurements ione but to 2 were made due part v to a combining el sanlogons hazards or operations and partir to the diminative service bin maring and obsolute and insignificant industries. he same full of they be I S unitable view of the contract to the conbeginning of the year, became effective duty 7, 1924, on account of autendment to the compensation set winds grants compensation to the child of the marry in cases in which the drabilly last, 22 d. The expense ratio is given for the year 1923 for stock and wall cont on their 1903 business, but these companies had not been setably our and in ute workinger's compensation business for the three real 1920 to 1922. The average expense ratio for stock companies for di-Year was 41.02 ner cours, a decrease of 2.55 per cent, and for minual companies 21.08 per cont. a decrease of 4.83 per cont. The average for all companies was 31.04 per cent, as against 36:20 for the more dur purped, yet or at at carned premium, and loss most per \$100 at pay foll for the same same. The audited preventle of policies insued by more companies in 1926 aggregated \$700,007,516; in 1921 theoretal we 8653,186,113; while in 1922 the amount was 8695,9694041 204 \$559,812,851, \$524,664,854,cand \$601,079,035, der this connection it might be of interest to note that the largest minurated bounds

among mutuals is transacted by the Liberty Mutual, which is the

# WORKMEN'S COMPENSATION AND SOCIAL INSURANCE

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# Recent Compensation Reports

#### Massachusetts

THE annual report of the Division of Insurance, of the Department of Banking and Insurance, Massachusetts, for the year ending December 31, 1923, presents in Part II certain data relative to workmen's compensation insurance for that State. A revision of the manual of rates, effective December 31, 1923, was necessary on account of changed industrial conditions since the previous revision, effective January 1, 1921; also because of amendments to the law, and increasing medical and expense cost. This resulted in a slight advance, the estimated ratio of 1924 rates to those of 1923 being on the manual basis 1.05 and on the collectible basis 1.14. Instead of 966 classifications as in the previous revision, but 752 were made, due partly to a combination of analogous hazards or operations and partly to the elimination of classes relating to obsolete and insignificant industries. Increases were made in 385 cases, decreases in 239, no change in 82; new classifications numbered 12 and specially rated classifications 34.

A further increase, uniformly adding 3.4 per cent to the rates at the beginning of the year, became effective July 7, 1924, on account of an amendment to the compensation act which grants compensation from the date of the injury in cases in which the disability lasts 28 days.

The expense ratio is given for the year 1923 for stock and mutual companies. For stock companies actually writing workmen's compensation business the expense ratio ranged for most companies from 32.30 per cent to 66.77 per cent. Two companies experienced a ratio of more than 98 per cent, while one showed a ratio of 472.56 per cent on their 1923 business, but these companies had not been actively engaged in the workmen's compensation business for the three years 1920 to 1922. The average expense ratio for stock companies for the year was 41.63 per cent, a decrease of 2.55 per cent, and for mutual companies 21.08 per cent, a decrease of 4.83 per cent. The average for all companies was 31.94 per cent, as against 36.20 for the preceding year.

A table is given showing the audited pay rolls for policies issued in 1920, 1921, and 1922; also the audited earned premiums, losses incurred, per cent of earned premium, and loss cost per \$100 of pay roll for the same years. The audited pay rolls of policies issued by stock companies in 1920 aggregated \$706,407,516; in 1921 the total was \$653,186,113; while in 1922 the amount was \$695,269,704. For mutual companies the figures for the corresponding years were \$589,822,351, \$524,664,854, and \$601,679,036. In this connection it might be of interest to note that the largest amount of business among mutuals is transacted by the Liberty Mutual, which is the

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name of the company created under the provisions of the compensation act, originally intended as the exclusive insurance carrier under the fund; the amount of the audited pay rolls on policies issued by this company in 1922 was \$298,937,636—almost one-half the total amount of business written by all mutual companies.

For the two types of companies the premiums earned and losses

for the three years were as follows:

Kind of company	1920	1921	1922
Stock companies: Audited earned premiums Losses incurred	\$6, 848, 707	\$5, 393, 242	\$5, 939, 078
	3, 720, 706	3, 662, 371	4, 027, 362
Mutual companies: Audited earned premiums Losses incurred	5, 599, 866	4, 283, 141	5, 022, 639
	2, 707, 618	2, 563, 521	3, 195, 77

The per cent of earned premium corresponding to the losses incurred by stock companies in 1920 was 54, in 1921, 68, and the same in 1922; while for mutual companies the corresponding rates are 48 per cent, 60 per cent, and 64 per cent.

The loss cost per \$100 of pay roll was for stock companies 53 cents in 1920, 56 cents in 1921, and 58 cents in 1922; while for mutual companies the respective amounts were 46 cents, 49 cents, and 53 cents.

panies the respective amounts were 46 cents, 49 cents, and 53 cents. Another table shows for "approximately 200 classifications covering the most important lines of industry in Massachusetts, including manufacturing and contracting risks, commercial enterprises and public utilities," the amounts of the audited pay rolls, the audited earned premiums, the losses incurred, and the net loss cost per \$100 of pay roll. As determined by this last item, the greatest hazard attends iron and steel erection (frame structures), in which the net loss cost per \$100 of pay roll was \$11.32 in 1920, \$10.90 in 1921, and \$8.00 in 1922; similar work on tanks or silos involved a loss cost of \$6.48 in 1920, \$11.52 in 1921, and \$4.11 in 1922. The noticeable or even extreme fluctuations apparent are in a measure reflected in the audited pay rolls for the respective years, and it must be said of these that they disclose too limited an exposure to furnish a basis for any final conclusions. In boot and shoe manufacturing, with audited pay rolls ranging from \$80,000,000 to \$90,000,000, the net loss cost per \$100 of pay roll was 18 cents in 1920, 21 cents in 1921, and 24 cents in 1922. In cotton spinning and weaving, with audited pay rolls ranging from \$89,000,000 to approximately \$96,000,000, the loss cost was 43 cents per \$100 of pay roll in 1920, 46 cents in 1921, and 42 cents in 1922.

#### Nevada

THE Industrial Commission of Nevada presents in its biennial report for the period July 1, 1922, to June 30, 1924, current data as well as a summary of the experience for the 11 years covered by the compensation act. Compensation is elective in this State, but if elected, insurance is required in the State fund.

The number of subscribers for the fiscal year ending June 30, 1924, was 952 as against 879 for the preceding fiscal year. The number of full-time workers covered in the later period was 12,548, and in

1923, 12,071. In 1924 the pay-roll exposure was \$22,028,325.30 as against \$21,038,054.13 in the earlier year. Premium payments in 1924 totaled \$356,747.52, and in 1923, \$342,883.12. The total amount of compensation paid in 1924 was \$344,888 as against \$326,061.48 in 1923. The average cost of compensated cases was \$264.22 for 1,305 cases in 1924, amounting to \$1.57 per \$100 of pay roll; in 1923, 1,074 compensated cases cost an average of \$303.60 per case, or \$1.55

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per \$100 of pay roll.

There are seven classes, one being made up of a single corporation. They are, with data for 1924: Mining, with 284 contributors and 3,229 full-time workers; ore reduction, with 66 contributors and 940 full-time workers; the Nevada Consolidated Copper Co. with 2 branches, copper mining and milling and smelting, and 2,374 employees; railroads, 8 in number, with 339 employees; utilities numbering 23 with 354 employees; State and municipal undertakings, as to which the law is compulsory, 99 in number, with 2,407 employees; and a miscellaneous class with 470 contributors and 2,905 employees. The largest number of compensated cases was in class 1, mining, the total being 598, the Consolidated Copper Co. coming next with 306 compensated cases, and the miscellaneous group following with 186. The highest average cost per case was in ore reduction, \$670.10 in 41 cases, utilities following with an average of \$375 in 21 cases.

cases, utilities following with an average of \$375 in 21 cases.

A table showing the frequency of accidents by classes and extent of disability discloses the fact that mining had the heaviest accident rate in 1924, 196.35 per 1,000 full-time workers, or 10.14 accidents per \$100,000 of pay roll. There were 634 accidents in this class during the year, of which 10 were fatal or resulted in permanent total disability; 54 caused permanent partial disability; and 584 temporary total disability in excess of 7 days; only 40 were reported showing disability of less than 7 days. This figure indicates that accidents of brief duration must have been ignored in the reports. The Nevada Consolidated Copper Co. reported 128.9 accidents per 1,000 full-time workers or 7.68 per \$100,000 of pay roll; while class 2, ore reduction, had 43.70 accidents per 1,000 full-time workers or 2.29 per \$100,000 of pay roll. The other classes had from 3 to 7.6 accidents

per 1,000 full-time workers in 1924.

Of the 30 persons killed in industrial accidents in 1924, only 19 left dependents. The actual and estimated cost in the fatal cases was \$112,917.60 or an average of \$3,763.92 per case. The medical benefits for the year 1924 averaged \$61.60 per case, 60 cents per \$100 of pay roll, or an average of \$10.09 per full-time worker.

The experience of the fund for 11 years shows a net premium income of \$3,315,460.93, and total compensation of \$2,933,269.93. There is a present balance of \$179,947.12; class 2, ore reduction, alone shows a net deficit, amounting to \$249.26. However, the experience of the last two years has produced current deficits in both mining and ore reduction, the total being \$54,064.09. This experience "indicates that an increase in rates in classes 1 and 2 may be necessary." The earned premium in other classes is reported as adequate, with a probability that in class 7, miscellaneous employments, a revision should be made reducing rates in certain employments whose experience justifies such action.

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THE report of the Workmen's Compensation Bureau of New Jersey, included in the 1923-24 report of the department of labor of that State, shows that during the year 20,837 nonfatal and 249 fatal cases were reported. Of the nonfatal cases 20,606 were found to be compensable, 15 being eases of total disability, 5,073 of permanent partial disability, and 15,518 of temporary disability. Approved cases numbered 18,084, for which a total of \$3,520,998.41 was granted in compensation.

#### Oklahoma William Marketin

THE Industrial Commission of Oklahoma, in its ninth annual report, covers the year September 1, 1923, to August 31, 1924. Its summary statement shows a constant and rapid growth in the number of accidents reported since the inception of the law, September 1, 1915, except for a drop in 1919 from 19,918 to 14,009, but rising to 22,348 in 1920, since which year the growth has been steady, reaching to more than double the 1920 total in the year 1924, when 45,826 accidents were reported. This does not include injuries resulting from occupational diseases or occurring in industries not covered by the act. The number of employers reporting was 10,350, of whom 10,000 carry compensation insurance and 350 are self-insurers.

The three causes producing the greatest number of accidents were stepping on or striking against objects (23,376), falling objects not being handled by the injured person (5,843), and machinery (1,394). Not all the injuries reported have been permanently classified as to nature and extent, sufficient time not having elapsed at the date of the report. However, 593 cases of a permanent nature, total or partial, have been determined. The aggregate time lost in 34,423 cases in which employees were found entitled to compensation was 480,440 working-days, involving a wage loss of \$2,214,561.69. Compensation paid aggregated \$1,387,855, besides \$579,462.41 medical

aid, making total benefits of \$1,967,317.41.

The location of the injuries caused by the accidents is given in much detail, as well as the number of accidents in the various industries, time lost, daily wages lost, and compensation paid, classified by causes. As would be expected in a State having such specialized development, the largest number of accidents occurred in oil and gasoline refining, 12,409, oil-well drilling coming next with 7,443; lead and zinc mining followed with 6,172 accidents, building being next in order, with 4,943. Pipe lines distribution is charged with 1,583 accidents, wholesale mercantile industries coming next with 1,356, and coal mining with 1,316. The number of accidents does not, of course, indicate their seriousness, oil-well drilling being chargeable with the largest amount of lost time (19,082 weeks) and of compensation (\$298,237), far exceeding the totals for oil and gasoline refining, which led in numbers, but which caused lost time of but 4,598 weeks or \$74,035 in benefits, falling below a number of other classes in these respects.

# Public Instruction as to Workmen's Compensation in Virginia

OR the past two years the school children of Virginia have been receiving instruction, through a prepared catechism, as to the benefits of the State workmen's compensation act and how they may be secured.1 A communication from Mr. C. G. Kizer, member of the Virginia Industrial Commission, states that through the cooperation of the superintendent of public instruction in allow. ing this catechism to become part of the regular course of instruction, more than "11,000 school-teachers and practically all of the school children of the State" have been interested.

The cost of disseminating the information for the two years has

been less than \$350.

Mr. Kizer states that recently one of the leading universities asked for 250 copies of the act and of the catechism and a similar request came from the largest women's educational institution in the State.

# Argentine-Belgian Workmen's Compensation Convention <sup>2</sup>

N December 26, 1924, the Minister of Foreign Relations of Argentina and the diplomatic representative of Belgium in Argentina signed a convention providing for the reciprocal treatment of their nationals as regards compensation for industrial accidents suffered by workers resident in the contracting countries. This agreement provides that workers of one of the contracting countries injured in the territory of the other shall have the same right to compensation which the local law concedes to its nationals, even if the injured worker has left the country in which the accident and injury occurred. The convention is to become effective one month after the exchange of ratifications.

# Czechoslovak Sickness, Invalidity, and Old-Age Insurance Law 3

HE Czechoslovak Parliament has recently adopted an act on social insurance which was promulgated on October 9, 1924. The act does not, as was the original intention of the Government, include all the branches of social insurance at present existing in the Czechoslovak Republic, but merely provides for the reform of the sickness insurance system, especially as regards its organization, and introduces invalidity and old-age insurance on lines which closely follow those of the sickness insurance system. The insurance of workers against accidents and the pension system for private salaried employees, however, are left as independent branches of social insurance, and the same applies to the insurance of miners, new regularies. lations for which were laid down by the act of July 11, 1922.

The act is to come into force, by order, on the same date as the act relating to insurance of persons working on their own account,

which is now pending.

An account of this new step was given in the October, 1922, issue of the Monthly Labor Review, pp.

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&</sup>lt;sup>2</sup> La Prensa. Buenos Aires, Argentina. Dec. 27, 1924.

<sup>3</sup> The data on which this article is based are from International Labor Office, Czechoslovakia, 4 Act. Workers' Insurance, Geneva [1925?], Legislative series 1924, Cz. 4; and Industrial and Labor Information, Geneva, July 6, 1923, p. 39, and Dec. 8, 1924, p. 29.

#### Object and Scope of the Act

THE act provides for the compulsory insurance of workers against

sickness, invalidity, and old age.

The insurance system created by the act covers all persons employed in territory of the Czechoslovak Republic, or on a vessel lying the Czechoslovak flag, on the basis of a labor, wage, or apprenticeship contract in any kind of work or service, provided that this is not merely a subsidiary or occasional employment. The system

also covers home workers.

The following persons are exempt from compulsory insurance: Employees of the State, a Province, district, or commune, or of bodies corporate declared to be equivalent to these, including employees of railways open to general traffic, provided that in case of sickness they are entitled to their salary for at least one year or to benefits equal to those under the present act and that in case of invalidity or old age they are entitled to benefits at least equivalent to those granted under the present act. Persons insured in miners' insurance funds and foreign employees of official representatives of foreign countries established within the Czechoslovak Republic and of international commissions are unconditionally exempt from insurance.

The following persons are exempt from invalidity and old-age insurance: Persons who are over 60 years of age at the coming in force of the present act or who do not enter an employment subject to compulsory insurance until after having attained the age of 60 years; articled pupils of lawyers or notaries, medical practitioners practicing temporarily and not on their own account; and persons liable to insurance under the legal provisions relating to pension

insurance for private salaried employees.

For the purpose of insurance the insured persons are divided into

wage classes corresponding to their earnings.

The number of persons who will be liable to compulsory insurance under the present act has been estimated at from 2,500,000 to 2,800,000.

#### Benefits

SICKNESS.—The minimum sickness insurance benefits have been fixed as follows:

Insured persons or members of their families who become sick are entitled to free medical treatment, including medicines and other therapeutical requisites, for a maximum of one year from the beginning of the sickness. Members of the family include the wife or husband, legitimate or illegitimate children, stepchildren, adopted or fester children who have not attained the age of 17 years, grandchildren, brothers and sisters, parents, grandparents, and parents-inlaw, provided that such members of the family are living in the same household with the insured person, are mainly dependent upon his wages for support, and are not entitled to benefits in their own right.

If the insured person himself becomes incapable for work owing to sickness he is entitled to minimum sick benefits, from the fourth day of the incapacity for a period not exceeding one year, varying in amount from 2.70 to 24 crowns 4 per day, according to his wage class.

<sup>&</sup>lt;sup>4</sup> Crown at par=19.3 cents; exchange rate varies.

The by-laws of the individual sick funds may, however, raise these minimum rates within certain limits.

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An insured woman or the wife of an insured person is entitled to maternity benefits, consisting of the free services of a midwife and, if necessary, of a doctor. An insured woman is also entitled to benefits, equal in amount to the sick benefits, for 6 weeks before and 6 weeks after the confinement, provided she is not otherwise entitled to sick benefits and refrains from all paid work. If she nurses her own child, she receives a nursing allowance amounting to half the sick benefits until the end of the 12th week of her confinement.

In the event of death of an insured person his dependents are entitled to funeral benefits equal to 30 times his average daily wage, but in no case less than 150 crowns. If a member of the family of an insured person dies, the insured person himself receives a funeral benefit which varies from 60 to 250 crowns, according to the age of the deceased person.

The act devoted special attention to curative treatment; indeed, its guiding principle throughout is not so much the granting of cash benefits as the improvement of the health of the nation and the prevention of disease in its early stages. With this object in view the act empowers insurance institutions to make provision in their bylaws for the following discretionary benefits: Treatment in a convalescent home for not more than a year after the cessation of medical treatment, treatment in cases of deformation, or loss of a limb, etc.

Invalidity and old-age.—Insured persons become entitled to invalidity and old-age pensions if, after paying 150 weekly contributions at least 13 of which must have been paid in the two years immediately preceding the receipt of benefit, they either become incapable of work or attain the age of 65. An insured person is deemed incapable of work if, as a result of sickness or other physical or mental infirmity, he is incapable of earning, in employment suited to his strength, ability, training, and previous occupation, as much as one-third of the sum usually earned in the same district by a physically and mentally sound worker with similar training. Insured persons who have attained the age of 65 are entitled to an old-age pension if they are not engaged in any work entailing liability to insurance under the present act or under the legal provisions relating to pension insurance of private salaried employees or insurance in miners' funds. The invalidity pension becomes due as from the day on which invalidity begins and the old-age pension as from the day on which the conditions for receipt of such a pension are fulfilled.

The invalidity and old-age pension consists of a basic pension of 500 crowns a year and an additional annual sum equal to one-fifth of insurance contributions paid. The pension is thus increased in proportion to the length of time for which contributions have been paid and to the wage class to which the insured person belongs. The State contributes a further 500 crowns to each invalidity or old-age pension. In addition, persons in receipt of an old-age or invalidity pension are granted an allowance equal to one-tenth of the pension for each child or orphan grandchild.

The widow or widower of a deceased pensioner is entitled, if unable to work, to a life pension equal to half the pension of the deceased. If the widow remarries she receives a lump sum equal to three times her widow's pension.

The orphans of a deceased pensioner are entitled, until attaining the age of 17 years, to an orphan's pension equal to one-fifth of the deceased person's pension if they are half orphans and to two-fifths

if they are full orphans.

If an insured person dies before the expiration of the "waiting period," his survivors are entitled to a lump sum equal to the value for one year of the invalidity pension to which he would have been entitled if he had completed the waiting period. If he dies after the completion of the waiting period or while in receipt of a pension, his survivors are also entitled to a lump sum equal to the value for one year of his invalidity pension, provided the survivors are not entitled to a widow's or widower's pension.

#### Sources of Income

THE funds required are raised through equal contributions from employers and employees and through State subsidy. For the present the amount of the weekly contribution for old age and invalidity insurance has been fixed at 4.30 crowns in the lowest wage class and at 8.80 crowns in the highest. These rates, however, may be changed by the national assembly on the basis of facts developed from statistical inquiries which are to be made at intervals of not less than five years. The amount of the contributions for sickness insurance is to be fixed by the Central Insurance Institution, and as

a rule shall not exceed 5 per cent of the average daily wage.

The insurance contributions are to be assessed and collected by the sickness insurance institutions, which must be notified by the employers of the engagement and discharge of every employee and of the data requisite for fixing his wage class. The employer must pay the whole insurance contribution (his own share and that of the employees) in arrear to the proper sickness insurance institution, at the intervals prescribed by the rules, and may deduct the employees' share from their wages. For employees who receive no money wages and for apprentices the whole insurance contribution must be borne by the employer.

#### Organization and Administration

THE basis of the insurance system is constituted by the district insurance institutions, which are the carriers of the sickness insurance and are at the same time entrusted with certain functions

in connection with invalidity and old-age insurance.

A district sickness insurance institution is to be established at the seat of every political authority of the first instance, which will take over the work of the sick funds already existing in the district. Works, guild, association, and friendly society sick funds may, however, continue operation as legal sickness insurance funds if they have a certain minimum membership (2,000 or 4,000). Employees in agriculture and forestry who are not insured in a district sickness insurance institution are to be insured in agricultural sickness insurance institutions.

The administrative bodies of the sickness insurance institutions shall be the general meeting of delegates, the governing body, super-

<sup>10</sup>ne hundred and fifty "contribution weeks" constitute the "waiting period."

visory committee, and the director or manager. The general meeting is to consist of delegates elected for a term of four years by the insured persons. The governing body is to consist of 10 members, 8 of whom shall be elected by the general meeting of delegates from among the eligible insured persons and 2 by the employers on the supervisory committee, which also has 10 members, the employers having 8 representatives and the insured persons only 2.

The carrier of the invalidity and old-age insurance for the country as a whole is the Central Insurance Institution, which shall have its head office at Prague. The committee of the central institution is to consist of the president of the institution (who is appointed by the President of the Republic) and 40 members. Of these, 12 shall belong to the insured persons' group, 12 to the employers' group, and 16 shall be experts in social insurance. The governing body of the central institution is to consist of the president of the institution and 10 members, 3 of whom shall belong to the insured persons' group, 3 to the employers' group, and 4 to the experts' group. The management of the Central Insurance Institution is to be placed under a directorate of three persons appointed and dismissed by the committee of the institution.

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The Central Insurance Institution shall also be the supervising authority for the sickness insurance institutions. The Central Insurance Institution itself is put under the direct supervision of the ministers of social welfare and of finance.

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#### LABOR LAWS AND COURT DECISIONS

## "Current Rate of Wages" Law of Oklahoma Declared Unconstitutional

THE United States District Court for the Western District of Oklahoma had before it on November 24, 1924, a case involving the constitutionality of sections 7255 and 7257 of the Oklahoma Compiled Statutes, 1921, which require contractors on public works to pay "not less than the current rate of per diem wages in the locality where the work is performed" to their employees. Three judges concurred in the view that the statute, being penal, was too vague and uncertain to stand. (General Construction Co. v. Connally, 3 Fed. (2d) 666.)

There was a penalty for each offense of not less than \$50 nor more than \$500 or imprisonment not less than three months nor more than six months, each day's violation constituting a separate offense. The phraseology of the act, "not less than the current rate of per diem wages in the locality," together with the stringent provisions for punishment was said to "deprive the complainant of his liberty and property without due process of law." The opinion

continues:

It is obvious that the statutes requiring the payment of current wages and providing penalties for the violation thereof are so vague and indefinite as to render it impossible for any person to know or to be able to determine in advance for what acts he may be arbitrarily required to answer for a criminal prosecution. The statutes involved, in effect, delegate to the Labor Commissioner of the State of Oklahoma the arbitrary power to determine what acts of a contractor working under a contract with the State or municipality he conceives to be a violation of the statute justifying a criminal prosecution. The statute wholly fails to provide an ascertainable standard by which a contractor may determine in advance what is the current wage in any given locality.

Common justice demands that before a person may be deprived of his liberty

Common justice demands that before a person may be deprived of his liberty by means of a criminal prosecution he must have been able to comprehend and to know in advance that if he commits certain acts such acts will violate the

provisions of a penal statute, plain and definite in its statements.

Various decisions by the Supreme Court were cited in support of this view, and decisions by the State courts of Oklahoma applying the act were distinguished, the opinion concluding:

Clearly this is not due process of law, because due process of law involves the requirement that criminal statutes have definite ascertainable standards of guilt.

## Old-Age Pension Law of Pennsylvania Held Unconstitutional

Some account was given of the enactment in 1923 of old-age pension or assistance laws in three States in the Monthly Labor Review for November, 1923 (pp. 182-184). The States there named were Montana, Nevada, and Pennsylvania. The last-named law was declared unconstitutional by the Court of Common Pleas of Dauphin County some months ago, the case

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going to the supreme court of the State, where the decision below was affirmed on February 2, 1925 (Busser v. Snyder, State Treasurer, 128 Atl. 80).

The constitution of Pennsylvania specifically provides that "No appropriations, except for pensions or gratuities for military services, shall be made for charitable, educational or benevolent purposes, to any person or community, nor to any denominational or sectarian

institution, corporation or association."

It was on the ground of its conflict with this provision that the law was declared unconstitutional by the court below, and the supreme court found it in definite conflict, so that the statute must fall. Various arguments were introduced on both sides why the act should be sustained and why condemned, but, as stated by the court, "all these theories must be left untouched by judicial opinion; under our form of government, the legislature alone promulgates the policies of government and is alone responsible if judgment is not well

exercised, socially as well as financially."

A distinction was made between the act in question, which was a pure grant conditioned on age, residence, and financial conditions, and retirement acts for public service employees. The latter are "founded on faithful, valuable services actually rendered to the Commonwealth over a long period of years, under a system of classification which the legislature has considered reasonable." Payments "are for delayed compensation," while the act in question entirely lacks any such basis. Neither can it be sustained as a poor law, substituting outdoor relief, or adding it to the present method of caring for poor persons and paupers under existing systems.

Under the act of 1923 the fundamental basis of poor laws (indigency or inability to work and without means of support) is swept aside as to certain persons, and for it is substituted an age limit for persons having property less than \$3,000, and an income less than \$365 a year, residence within the Commonwealth for certain length of time, discretion in the commission for the imperative mandate to poor directors, and other manifest substitutions.

The legislature in making such extensions has broken over the bounds of "the historical definition of poor persons," and entered the field of legislation forbidden by the section of the constitution above quoted.

The decree declaring the statute to be in contravention of this

provision was therefore affirmed.

# Constitutionality of Industrial Disputes Investigation Act of Canada

A BRIEF note appeared in the Monthly Labor Review for March, 1925 (p. 196), setting forth the fact that the Canadian industrial disputes investigation act had been declared unconstitutional by the Imperial Privy Council of Great Britain on account of its conflict with the British North America act, distributing legislative power among the Dominion and provincial Parliaments.

The Department of Labor of Canada has issued a volume of 304 pages 1 setting forth the judicial proceedings respecting the validity

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<sup>1</sup> Canada. Department of Labor. Judicial proceedings respecting constitutional validity of the industrial disputes investigation act, 1907, and amendments of 1910, 1918, and 1920. Toronto electric commissioners v. Snider et al. Ottawa, 1925.

of this act and its amendments. An introduction summarizes the situation, while following chapters present the first judgment in the case by a single justice of the high court division of the Supreme Court of Ontario, Mr. Justice Orde, an adverse decision in a hearing for a permanent injunction, the judgment of the first appellate division of the Supreme Court of Ontario with a dissenting opinion, and the final judgment of the judicial committee of the Privy Council of Great Britain. Other chapters present the briefs for the two parties, while the argument before the judicial committee of the Privy Council is given at length, covering nearly 200 pages of the volume. The text of the act, a summary of proceedings under the act, and a summary of the arbitration acts of the different Provinces are also presented, making the volume a complete presentation of the situation as it exists and the basis on which the decision was reached.

As is well known, the statute undertakes to provide through agencies created under the Federal law of 1907, methods of determination of industrial disputes, restricting the right to engage in strikes or lockouts within certain limits, providing for the organization of boards of conciliation and investigation and establishing procedure. Strikes and lockouts prior to and pending a reference to the board were declared illegal and engaging in or inciting such activities subjected to penalties. The considerable departure from earlier practice and the exceptional procedure provided for, together with the very considerable success attendant upon the operation of the act, have given it a large degree of prominence in the industrial world. Summarizing the experience under the act, it appears that 619 applications have been made for the organization of boards, of which 441 were granted. The number of cases in which strikes were not averted or ended was but 37.

The constitutionality of the act had been challenged earlier in its history, but upheld by courts of the Province of Quebec in 1912 and 1913. The case in which the final decision was reached arose in connection with the refusal of the Toronto electric commissioners to recognize the authority of a board of conciliation and investigation which had been applied for by its employees in a dispute as to increased wages and changed working conditions. The board was constituted, the member representing the employer being named by the minister of labor, since the commissioners made no nomination

and protested against the formation of any board.

It was the contention of the commission that the Dominion Parliament was without jurisdiction to enact a law binding on municipal authorities or affecting civil rights. Mr. Justice Orde granted a preliminary injunction on the application of the commissioners, accepting their contention and saying that the act "purports to interfere in the most direct and positive manner with the civil rights of employers and employees and also with the municipal institutions of this Province, both subject matters of legislation exclusively assigned to the Provinces." An application to make this injunction permanent was subsequently heard by Mr. Justice Mowat, who took the position that the British North America act made it possible for the Dominion Parliament to regulate industrial disputes because of their liability to affect wider areas than the Province in which they

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arose. The act of the British Parliament, which has been referred to, became a law in 1867, and it was Mr. Justice Mowat's contention that industrial conditions not then possible of contemplation made necessary an interpretation of the act which would permit the enactment of the statute under consideration. This dissent between two justices of equal rank led to a reference of the case to one of the appellate divisions of the Supreme Court of Ontario. It was there decided, one justice dissenting, that the statute was valid, and that the commissioners must yield to the findings of the board constituted under it. Then followed the appeal to the judicial committee of the Privy Council in England.

The British North America act, which controls the situation, was an act of the British Parliament. Under it, the Dominion Parliament might "make laws for the peace, order, and good government of Canada" and specifically with regard to "the regulation of trade and commerce" among the 29 classes of subjects specifically placed within the scope of Dominion control. On the other hand, section 92 stated what were the "exclusive powers of provincial legislatures," including thereunder "property and civil rights in the Province" and

"municipal institutions in the Province."

The judicial committee gave its judgment January 20, 1925, a bench of five justices unanimously deciding against the constitutionality of the disputes act on account of its conflict with the general law above The act was summarized, and the fact pointed out that the Province of Ontario had a substantially similar act, of which it was said that "it is clear that this enactment was one which was competent to the legislature of a Province under section 92." In its application to the present case the Ontario act is "possibly competent not merely under the head of property and civil rights in the Province but also under that of municipal institutions in the Province." propriety of the Dominion's action was urged by the counsel on the ground that "it was directed to the regulation of trade and commerce throughout Canada, and the protection of the national peace, order, and good government, by reason of (a) confining within limits a dispute which might spread over all the Provinces; (b) informing the general public in Canada of the nature of the dispute, and (c) bringing public opinion to bear on it." It was also suggested that the Dominion Parliament had power to legislate on account of the relation of the question to criminal law. This latter part, however, was briefly disposed of, as "it is obvious that these provisions dealt with the civil rights," with no purpose of making striking generally a new crime; nor were strikes within the ambit of the criminal law, at least "only on the ground of conspiracy. But there is no conspiracy involved in a lockout; and the statute under discussion deals with lockouts pari ratione as with strikes."

The disposition of the question as to the power of the Parliament "to make laws for the peace, order, and good government of Canada" was found more difficult. The appellate division, in its majority opinion, had ruled that the act in question was not "in its pith and substance" one relating to merely provincial matters covered by section 92 but related to industrial disputes which might develop into disputes affecting not only the immediate parties but the "national welfare, peace, order, and safety." The opinion also took

the position that the act "was not one to control or regulate contractual or civil rights, but that its object was to authorize inquiry into conditions or disputes, and that the prevention of crimes, the protection of public safety, peace and order, and the protection of trade and commerce, were of its pith and substance and paramount

purpose."

The fifth judge in this court dissented, admitting the possibility of the spread and development of industrial strife so as to lead to a condition "comparable to war, famine, or rebellion," and justify Dominion action. But, as this judge stated, the present act could not be supported as an emergency order dealing with a matter of general Canadian interest and importance or with a power conferred under any of the specific heads of section 91. No emergency warranting special action was shown to exist within the history of the act, nor was it framed only to meet such an emergency. Anticipated possibilities were such that the question in actual issue is "whether regulation of civil rights or invasion of property rights in the fashion provided by the act, in order to bring about a uniform and desirable method of dealing with industrial disputes, admirable as its purpose might be, could be valid in view of the exercise of the powers given to the Provinces." No question existed as to the powers of the Provinces to make such enactments, and several of them have "legislation of much the same kind." There were no circumstances in the Toronto case sufficient "to justify Dominion interference if such interference affected property and civil rights." From these considerations this judge was of the opinion that the act could not stand, and the committee of the Privy Council concurred in that view. On examination of the evidence "they are of opinion that it does not prove any emergency putting the national life of Canada in unanticipated peril" and advised for the appellant commissioners of the city of Toronto, granting them the injunction desired against the board of conciliation, restraining it from taking any action in the case.

A brief but very suggestive account of "Government intervention in labor disputes in Canada" by the librarian of the Canadian department of Labor concludes the document. Provincial action is reviewed and the various steps taken by the Dominion Parliament in the field of conciliation and arbitration. The effectiveness of the act of 1907 in marshaling public opinion in support of the findings of the boards created under it was referred to, and a comparison was made between the method proposed by this act and those adopted in Australia. The statement is vouchsafed that "the attitude of the employers and workmen toward the act appears, on the whole, friendly, the watchful and half-suspicious attitude adopted at first having given way to one of cooperation in carrying out the terms of the statute and of seeking to amend it from time to time to facilitate procedure." Obviously, however, the future of such laws in Canada lies with the Provinces, of which Ontario, Manitoba, and Quebec have laws in this field, though the latter was made inoperative in 1922 by withholding Nova Scotia also has a law, but it is apparently of appropriations.

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# Reduction of Housing Accommodations through Demolition of Habitable Dwellings in Philadelphia

THE Philadelphia Housing Association has recently issued a study of the effect upon the housing problem of the clearance of sites in the built-over area of the city. This is a line of investigation which has hitherto been neglected, yet its bearing upon the problem

of congestion is obvious.

In Philadelphia, during the two years 1923 and 1924, in the process of clearing sites for various purposes, 1,685 dwellings were destroyed, and as some of these were two and three family dwellings, lodging houses, and the like, the population dehoused was larger than the figures indicate on their face.

This loss reduced the number of family accommodations by 2,073, which, added to the rooming and lodging house population dehoused, gives a known loss of accommodation for 13,929 persons, though in all probability the actual number of persons dehoused exceeded the totals gathered by field investigators.

Unfortunately, a considerable proportion of the dwellings destroyed are in the low-rental group, so that there is little chance of their being replaced. Considering only one and two family houses, the rental distribution of those demolished within the two years was as follows:

Monthly rental:	1923	1924
Less than \$10	90	19
\$10 to \$19.99	227	244
\$20 to \$29.99	131	183
\$30 to \$49.99	106	208
\$50 and over	49	72
tope taken by the Dominion Parlmaner Later line	602	796

A review of the demolitions of the past two years reveals that the city has lost a group of small, low-renting houses when such are in demand and vitally needed, and it emphasizes that no constructive thought has been given to the economic problems thus presented, in that no relief has been planned for the families thus discommoded. During these two years, of the 1,329 single and two family dwellings for which rental data were obtained, 67.3 per cent were in a rental range of less than \$30. With the extraordinary rental increase in the low-rental group during this same period, such high percentage of evictions within this range means an abnormal economic reaction. This is more pronounced in view of the fact that families living in these low-rental properties can not afford to increase their budget allowance for rent. The consequence being that a higher rental reduces funds needed for other essentials of normal living, or forces families into poorer accommodations.

Not all of the houses destroyed were a real loss to the city. About 159 were in bad structural condition, some were on unsewered streets, and some were on rear lots. The great majority, however, were either in good condition, or capable of renovation and repair. "The two-year loss in structurally sound houses reached a total of 1,086."

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It is admitted that the growth of a city can not be retarded because necessary changes involve the destruction of houses already built, but the question is raised whether wise planning might not lessen the need for such destruction. It is suggested that a program of encouragement to the decentralization of industries might not only help to conserve low-rental houses in good structural condition but might also reduce community problems, traffic difficulties, and the like. Where such a program would not help the situation, the hard-ships of dispossession might be reduced by not making the clearance until the site is really needed. The municipal government has in several cases which are instanced cleared sites a considerable time before it was ready to proceed with the new uses of the land thus cleared, and families have in consequence been evicted months and even years before it was necessary. Continued occupancy of houses until new construction is nearly ready to proceed is advised.

The report closes with several recommendations, urging the establishment of a city commission with power to plan for the necessary growth of the city, the adoption of a zoning ordinance, and the extension of housing activities for the provision of a larger supply of low-rental housing. Two recommendations deal especially with the

problems due to the demolition of existing housing.

In projecting public improvements an attempt should be made to conserve the present supply of low-priced dwellings, if not permanently, at least as long as possible, out of consideration for the rental population and as a feature of municipal economy.

Recognizing that congestion is increased by the demolition of houses, the city should extend its housing and sanitary inspection service, compel the landlord element to provide adequate sanitary equipment, and maintain hygienic occu-

pancy on their premises.

## Progress and Cost of Housing in England

THE English magazine, Garden Cities and Town Planning (London), gives in its issue for March, 1925, some data concerning progress under the housing acts of 1923 and 1924. Up to February 11, 1925, the total number of houses authorized under these acts was 210,851, of which 81,015 were to be built by local authorities and 129,836 by private enterprise. At that date a little over one-fourth (58,706) of the houses authorized had been completed, and 52,463 were under way, while the remainder had not yet reached the stage of actual construction. By far the larger number (181,594) were to be built under the terms of the 1923 act, which was carefully designed to encourage private enterprise to take up the task of supplying the needed housing.

There has been a considerable increase within the past year in the cost of the houses built with public subsidies. No data are available for those put up by private enterprise, but for those included in the contracts made by the local authorities the cost at

various dates was as follows:

s, and alterations S, 12s, 000 8 36	Nonparlor houses	Parlor
January, 1924	1 £386	1 £445
June, 1924	419	458
October, 1924	450	501
December, 1924	440	530
January, 1925	439	495

<sup>1</sup> Pound at par=\$4.8665; exchange rate varies .

In all discussion of these increased prices, the increased wage rates in the building trades figure largely. According to the Ministry of Labor Gazette (London), for January, 1925 (p. 3), there were two such increases during the year.

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In the building industry rates of wages generally were increased in February, under a cost of living sliding scale, by ½d.² or ½d. per hour, and again by a further ½d. per hour in August, while in London and certain provincial towns special additional advances were granted.

Speaking in answer to a question in Parliament, the secretary to the Ministry of Health said that the range of increase had been from 3/4d. to 2d. per hour, 2d. being the increase in London, but the most general advance being 1d. per hour. These increases would not greatly increase the total cost of erecting a house.

The effect on the cost of the house varies according to the character of the building and the output of work; but, assuming reasonable conditions, a general variation of ½d. per hour would represent between £4 and £5 variation in the cost of erecting the house.3

Since the most general increase has been 1d. per hour, according to the ratio here given, the general increase in cost should be from £8 to £10 per house, but the figures given above show an increase of £50 in the case of parlor, and £53 in the case of nonparlor houses. Under these circumstances, the labor organizations are urging an inquiry into the increases in the cost of building materials and other factors entering into the cost of a finished house.

# Value of Building Construction in Great Britain

IN ITS issue for March, 1925, the Ministry of Labor Gazette (London) gives some data concerning the estimated cost of the buildings for which plans were approved during 1923 and 1924. With the exception of Government construction and buildings within the city and county of London, all building plans must be approved by the local authorities of the district in which they are to be carried out before work may begin. Statistics as to the estimated cost of the buildings for which the approved plans provide furnish, therefore, some indication of the amount of building activity and of the directions in which it tends.

For the two years under consideration, the total value of the plans approved, and the division of this amount among the different kinds of building were as follows:

or and oc subsects subject of	1923	1924
Dwelling houses	1 £31, 978, 000	£37, 870, 000
Factories and workshops	3, 666, 000	3, 829, 000
Business and commercial building	4, 235, 000	4, 896, 000
Churches, schools, and public buildings	2, 994, 000	3, 319, 000
Other buildings, additions, and alterations	8, 124, 000	8, 590, 000
Total	50, 997, 000	<b>58, 5</b> 04, 000

Pound at par=\$4.8665; exchange rate varies.
 Penny at par=2.03 cents; exchange rate varies.
 Great Britain. Parliament. House of Commons. Parliamentary Debates, vol. 180, No. 17, p. 658.

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These figures show plainly the increased emphasis laid on housing, in the effort to relieve the extreme congestion. Before the war it was not uncommon for housing to account for about two-fifths of the annual amount spent in building; in both 1923 and 1924, over three-fifths went for this purpose. The increased expenditure for dwellings in 1924 as compared with 1923 was general throughout the country, only one district, Yorkshire, showing a decrease. Here the falling off is so slight as to be negligible, the figures being £4,317,000 for 1923 and £4,297,000 for 1924.

Data are also given showing the estimated cost of approved plans in 80 cities for which continuous records are available. The collection of building statistics was temporarily suspended during 1922, but with the exception of that year, the total value of plans approved, the amount devoted to dwelling house construction, and the proportion which this forms of the total for each year since 1911 are as follows:

ESTIMATED COST OF BUILDING IN 80 TOWNS OF GREAT BRITAIN

[Pound at par=\$4.8665; exchange rate varies]

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Year	Cost of all building	Amount	Per cent of cost of all build- ings	Year	Cost of all building	Amount	Per cent of cost of allbuildings
1911 1912 1913 1913 1914 1915 1916	£11, 274, 000 10, 843, 000 12, 209, 000 11, 220, 000 7, 318, 000 5, 266, 000 4, 938, 000	£5, 187, 000 4, 276, 000 4, 585, 000 4, 617, 000 1, 935, 000 631, 000 250, 000	46 39 38 41 27 12 5	1918	£5, 256, 000 25, 130, 000 45, 829, 000 18, 669, 000 29, 003, 000 34, 062, 000	£212, 000 6, 572, 000 21, 953, 000 8, 297, 000 17, 182, 000 21, 935, 000	4 26 48 44 59 64

It will be noticed that during the war dwelling-house construction fell off almost entirely, and that it was not until 1920 that it regained its former relative position. In 1921, when the industrial depression was at its worst, housing maintained its relative position, but the total value of the building planned for was so diminished that it is doubtful whether, making due allowance for the change in the value of money, the amount expended for this purpose showed any increase over some of the pre-war years. Since then, the trend has been very decidedly toward residential building.

The statistics for 1923 and 1924 show a recovery, more particularly in respect of dwelling houses, the figures for which in 1924 almost equalled those for 1920, a year of much higher building costs, and accounted for nearly two-thirds of the estimated cost of all buildings for which plans were passed in these 80 towns.

## COOPERATION ensed expenditure for dwellings peral throngland the country.

these figures above plainly the increased traphasis had on housing, - i.s effort to relieve the extreme congestion. Before the war it was off levelflisout fundame for about two-siffle of the

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### Condition of the Cooperative Movement in Illinois

A T THE 1923 convention of the Illinois State Federation of Labor, a bureau of cooperative societies was created for the purpose of "helping to build up a bona fide Rochdale cooperative movement" in Illinois and of protecting the membership of the trade-union movement of Illinois "from being imposed upon by those who would exploit the cooperative sentiment on the part of the \* \* \* their own selfish interests." The bureau workers for made its report to the 1924 convention of the federation, giving an account of its activities and of the condition of the cooperative movement in Illinois.1

Up to a few years ago a considerable proportion of the cooperative societies in Illinois were operating on what was called the "American plan," the main feature of which was the large measure of control over local societies which was vested in the Central States Cooperative Wholesale Society, to which they were affiliated. It was claimed that the conditions of the American distributive system made this modification of the strictly Rochdale plan necessary if the movement in this country was to develop "rapidly and safely."2 was found, however, that even this plan did not insure safety, for after operating under it for some time both locals and wholesale found themselves in difficulties. It was, accordingly, decided to reorganize the wholesale and, as rapidly as possible, place the constituent societies on a strictly Rochdale basis.

The failure in the past to accept only the Rochdale principle as the basis to develop the cooperative movement in Illinois has been due, principally, to the lack of an established educational policy. This lack of understanding of the right principle has also permitted such an institution as the Cooperative Society of America to capitalize the cooperative sentiment which had been developed, and to take from the people of Illinois and adjacent States millions of dollars, merely as a common-law trust company, without any semblance of control by the investors and by simply using the name "cooperative."

In reorganizing the Central States Cooperative Wholesale Society, and starting to again build the centralized movement in Illinois, from the ground up, the cooperators realized that their efforts would be useless unless they established an educational organization, separate from the commercial end of the movement. It was found, however, due to weakened condition of the movement, that some plan was necessary whereby the commercial and educational activities could lean on and support each other until each could stand alone.

On August 1, 1923, therefore, an educational department was established in the wholesale society and made permanent by the 1923 convention of the wholesale society. Any bona fide cooperative society may become a member of the educational department. Affiliated societies pay into the treasury of the department each

American Federation of Labor. Illinois branch. Proceedings of forty-second annual convention, Peoria, Sept. 8-13, 1924, pp. 195-207.

<sup>2</sup> See account of the proceedings of the Second (1920) Cooperative Congress, given in the MONTHLY LABOR REVIEW for January, 1921, pp. 127-132.

month an amount equal to one-tenth of 1 per cent of the gross amount of business done by them. Trade-unions, educational societies, and other organizations interested in cooperation may become fraternal members. It is stated that the department has already "rendered valuable service to the movement in Illinois." It has assisted in reorganizing 10 stores from the old plan to the Rochdale basis, conducted an accounting service for 10 societies, organized 12 new societies, investigated 3 "fake" societies and put them out of business, furnished legal advice and prepared by-laws, and has organized and is conducting a cooperative death benefit society.3 It has been issuing a monthly paper, The United Consumer, but this, it is expected, will hereafter be published by a separate company organized for the purpose.

The director of the department reports as follows on the present

conditions of the movement in the State:

In spite of the fact that the past year has witnessed the worst stagnation the mining industry in this State has ever known except in time of strike, it has been the most prosperous and most uniformly successful year the cooperative movement, as represented by the local societies, has ever experienced.

This condition can be accounted for only by the fact that with age and experience these societies are growing more efficient, are becoming more firmly established, are more capably demonstrating their ability to serve their members, and to the fact that more attention has been given to cooperative education and

an organized movement in that direction than ever before.

With but few exceptions, the local societies have paid substantial dividends regularly every quarter throughout the year. In addition to that, each of them have added substantial amounts to their reserves and 15 of them have contributed liberally to the support of their educational movement. There are at the present time 89 consumers' retail societies operating in the State and practically all of

these have every prospect of being permanently established institutions.

The turnover of these societies during 1923 aggregated approximately six millions of dollars. The new societies that have been organized, all of them through the activities of the Central States Cooperative Wholesale Society in carrying out its reorganization program, are showing encouraging progress although many of them have been forced to struggle against what to any other business would have been impossible conditions and obstacles.

During the year two conferences of the managers and directors of local retail societies have been held, which have been participated in by the representatives of about 30 societies. These meetings have made remarkable progress along the lines of promoting a better understanding of the problems of the local societies and of the movement in general; in bringing the various local groups into closer working agreements with each other, and in the organization of a permanent educational department.

There is any amount of unmistakable evidence on every hand that more and more people are becoming interested in the possibilities which the consumers' cooperative movement holds out to them for the sane, permanent, and equitable solution of our economic problems, which are daily becoming more seriously

alarming.

The reorganization of the Central States Cooperative Wholesale Society has, during the past year, progressed as satisfactorily as could be expected under the

circumstances. Every conceivable difficulty has been met and dealt with as patiently, as fairly, and as intelligently as we knew how.

In carrying out the reorganization program we have constantly had in mind the idea of saving as many of the existing retail stores as possible. In our desire to give the people in each local community every possible opportunity to organize a Rochdale cooperative society and take their store over, we have incurred losses that could have been avoided by disregarding the interests of the local people and disposing of the store to the best material advantage of the wholesale organi-

The support given the wholesale by the local retail societies has been only about 5 per cent of what it should have been. In addition to this, the wholesale has

<sup>&</sup>lt;sup>3</sup> The United Consumer, East St. Louis, February, 1925, p. 3.

been handicapped for working capital, due in the main to the liberal terms which have been extended to societies that have taken over retail stores, allowing them to pay the balance due the Central States on ridiculously small monthly installments and to the industrial depression resulting from the stagnation of the Illinois mining industry.

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There are, however, many encouraging signs that lead us all to believe that there will shortly be a marked improvement in conditions. A better spirit of loyalty is being manifest on the part of many managers and with the improvement of industrial conditions we are hopeful for a marked improvement in the business of the wholesale. All of the retail stores have been finally disposed of with the exception of two and we hope to be able to negotiate the final closing of these two in the near future.

### Cooperative Conditions in Russia 1

BUSINESS in Leningrad and Moscow is active. Most of the shops are open and display for sale every kind of attractive goods. There are three distinct types of distributive business: Private profit-making merchants, stores run by the city government, and the cooperative stores—representing capitalism, socialism, and cooperation.

The private shops are having a hard time. They are discriminated against in many ways. All buildings belong to the Government and the private merchant has to pay much higher rent than either of the other two. Then he is taxed, and he pays more for the house where he lives, and for his children's schooling, and for most everything he buys. The municipal stores and the cooperatives should have no trouble in competing with him. But he manages to exist.

Before the revolution, St. Petersburg was one of the great capitals of the world. The wealth of its ruling class was conspicuous. Some of its shops were truly palatial. New York City had no retail grocery stores to compare in ornate and expensive splendor with those of St. Petersburg. These beautiful buildings with ceilings 30 or 40 feet high, with their bronze statuary, carved wood interiors, elaborate plate-glass show cases, tiled walls, cut-glass and bronze electric-lighting fixtures, wine cellars and every sign of extravagance, have been turned over to the cooperative society. The finest of these on the Nevsky Prospect pays 1,700 rubles per month rental to the city, has 18 clerks and does a daily business of 5,000 rubles.

The local Moscow district society, the Moscow Central Union of Consumers' Societies (M. S. P. O.), the president told me, has 800,000 members and a daily turnover of 300,000 rubles. These figures are steadily increasing. (There are 4,000,000 population in the Moscow district.) It has 400 different establishments. Among these are 30 bakeries. The stores give the members from 4 to 15 per cent discount at the time of purchase. This is in place of a savings return. I was told that the cooperative stores sell at about 2 per cent cheaper than the stores run by the city government. There are large and attractive stores, as well as small shops, in all parts of the city.

Practically every sort of distributive business is carried on. We visited not only stores, but restaurants, bakeries, and other pro-

Extracts from Cooperation, New York, February and March, 1925: "Letters from abroad: Russia, the laboratory of social experiment," by Dr. James P. Warbasse. Being an account, by the president of The Cooperative League of the United States of America, of his trip to Russia in August, 1924.

ductive plants. From both cities we made journeys out into the country and visited country villages. The cooperative store is found everywhere.

The great cooperative organization of Russia is Centrosoyus. Its yearly sales are estimated at over 200,000,000 rubles. The turnover of its member societies in 1923 was over 800,000,000 gold rubles. There is probably no cooperative organization in the world whose

officers put in so many hours of work each day.

Its membership is composed of some 17,000 consumers' societies with over 7,000,000 members. It has many warehouses and 25 different manufacturing industries. It conducts a large insurance department and many noncommercial activities. Among the latter are education and propaganda. Its library contains 75,000 volumes. It conducts hotels and boarding houses for its employees; also a 40-bed hospital, with a staff of 6 specialists and 34 assistants; an analytical laboratory; an X-ray laboratory; ambulance stations; a dental clinic; a rest house in the suburbs of Moscow; and a sanatorium in the Crimea.

It is difficult to judge the factories of the local societies and of Centrosoyus by the standards of the West. Industry is different in Russia. Furthermore we must bear in mind that Russian industries have passed through a terrible ordeal. In the Russia of the Czar the workers were badly exploited by hard corporations. Then came the collapse of the old régime. Then chaos. Then the Kerensky régime, followed by the Bolshevist Government. Then came counter-revolution and the war made upon Russia by the Allies. And running through it all was poverty, famine, great suffering, and the disorder which was the price of hundreds of years of monarchistic corruption and oppression of the people. The cooperators have created some industries of their own, and they have rented and bought some plants from the Government. These plants, which were formerly capitalistic factories, were found in bad condition. Many had been closed for years. The machinery and equipment were fallen into decay. The buildings were dilapidated. But the cooperators have taken hold of them and got them going. Most are not running full capacity. Some are producing more than they did in the old régime.

One of the best plants we saw was the Moscow society's candy factory. It has 1,500 employees and turns out 10 tons of candy daily. This was a private capitalist's candy factory with 3,000 workers, before the revolution. The same technical superintendent is still in charge. Before the revolution, the superintendent got 1,000 rubles a month wages and workers averaged 20 to 30 rubles a month; now he gets 250 rubles a month and workers average 40 to

50 rubles.

A Centrosoyus soap factory at Moscow employs 100 workers. Before the war, as a private plant, it produced 360 tons of soap a month; now under the same superintendent it turns out 575 tons a month.

Everywhere, everybody said that the industries were improving, and it looked to me as though that is true. They are putting in new machinery and getting experience. But these Russian industries have a long way to go. The great majority of factories which we

visited would not compare in cleanliness, orderliness, or efficiency with the cooperative factories of other countries. The same is true of the stores and other businesses. Perhaps it is because Russia is

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different and the Russians do things differently.

One thing is striking: The workers even in the piecework clothing factories do not work as hard nor as fast as in the western countries. If I were employed in an industry, I should prefer the Russian lei. surely method. It surely is not so hard on the worker as the intensive method. When I visited a big plant and engaged in a discussion with the superintendent, it was interesting to see the workers one by one leave their machines, join the group, and listen to the conversation. Occasionally a worker would answer a question that would throw some light on the subject. When I left they went back to their machines. That may be called human industry. But this humanizing of industry keeps up the cost of living in Russia. Many industries are losing money. Russia is not surrounded by a wall Her industries have to compete with those of the outside world. If things can be brought in from foreign countries cheaper than they can be made in Russia, the Russian industries are demonstrated to be unprofitable. This is a serious fact and the Russians know it. They are doing much to introduce more efficiency in industry and thus to bring down costs of production, but it is a difficult problem.

There is everywhere a need also of efficiency in business administration. The Russians are idealists, artists, poets, philanthropists, but they are not efficiency engineers. When I saw a factory without broken windows, that looked clean and orderly, I could guess that it had a German technical engineer in charge, before I stepped in the

door.

The Russian standard of cleanliness and order is different from the standard in western lands. One of my most amazing discoveries in Russia was just this. I never could get used to it. A Russian would open the door and say, "See how nice and clean and systematic and orderly this is!" And to my eyes at least it was not nice, it was not clean, and it was unsystematic and disorderly. At first I thought it was a joke. Then I discovered that the Russians meant it, and I realized that it was a much more serious matter.

This is purely a question of relative values.

The organization of the cooperative societies in the large cities of Russia is not easy to understand. They have great business, extensive plants, and many members. Undoubtedly many members have joined, paid for a certificate of stock, and are duly constituted members just as in other countries. On the other hand, one finds much

confusion in this connection.

There seems to be a looseness of connection with the cooperative society. I can say that the situation here is different from what one finds in other countries, where every member of the cooperative society knows very definitely that he is a member; he knows when he joined; he has shares of stock; he knows what they cost and where the stock certificate is, and when the last membership meeting was held. Among the Russians with whom I talked this is not the case. One problem I honestly tried to solve. It is the question of the

relation of the cooperative movement to the State. It was for this that I really went to Russia. On this subject I talked with Mr.

Kintchuck, with many officials of Centrosoyus and the other organizations, with employees of cooperative societies, with members, with plain working people of different trades, with intellectuals, and with

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We remember that there was a big and growing cooperative movement in Russia before the war. After the fall of the czarist régime it grew wonderfully. Then at its period of greatest development, in 1918 and 1919, decrees of the Soviet Government made the cooperatives a part of the machinery of the State; and in 1920 the distributive societies were nationalized. The societies were absorbed by the State and cooperation as a voluntary movement disappeared. In fact, we may say that, legally, cooperation ceased to exist in Russia. The State control of cooperation did not work. Then the Soviet Government theoretically gave back to the cooperatives their autonomy and freedom by the decree of April 7, 1921. Now, how much freedom from the State actually exists?

The critics of present Russian politics, and that means most of the cooperators of Europe, say that cooperation in Russia is under the

control of the State.

On the other hand, the high cooperative officials in Russia claim that their movement has complete freedom and autonomy. The facts are that the Government did release the cooperatives from Government control in 1921, but they found themselves set at liberty in a world in which there is no liberty for anybody. Commerce and property in Russia are controlled by the State as much as possible. That should be perfectly clear because that is the policy of the Russian Government. But where is there a country in the world in which cooperation is absolutely free from the State? Not one. The corporation laws and the taxation laws of every country modify and control cooperation to a greater or lesser degree. And there is at least one European country outside of Russia in which the cooperative movement is simply an accessory of convenience to the dominant political party. That is Austria. In Belgium, politics is inseparably mixed with cooperation. In Italy the mixture is so close that the cooperative movement rises and falls with the Government.

Here are some observations which may or may not be of significance. The old leaders of the cooperative movement of Russia are no longer the leaders. The high places are occupied by men who are mostly communists and who were not trained especially in cooperation. It is said that the reason for this is that the old leaders were hostile to the Government and that if cooperation is to make headway it must have as its leaders men who can work with the

present Government.

Cooperators in Russia have to take a sympathetic attitude toward Communism to make the path of cooperation smooth. But this does not mean that they are Communists or that they desire to see Communism exalted above cooperation. By one cooperative official I was informed that the high officials are appointed by the Government; the lower officers and employees are appointed by the society. This means, I take it, that the Government advises the cooperatives as to who would be most acceptable for a high position. The cooperatives are guided by that advice. It would be inexpedient for the

society to go ahead independently and elect somebody who might  $b_\theta$  distasteful to the Government.

I should judge that about 5 per cent of the members of the cooperative societies are Communists. This is surely not a great political influence when we realize that the big cooperative movement of Belgium requires that all of the members shall be members of the

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In many factories I observed two different superintendents, and have the idea that this is pretty prevalent. One is the head director. who is a political appointee and who is not appointed because of his knowledge of how to run a factory. The other is the technical super. intendent—engineer; he was often the superintendent of the factory when it was owned by capitalists before the Revolution, and he knows the business. The first is the price the people pay for a dominating government. Russia is producing some technical managers, but the best I saw were from the neighboring countries or had been trained in German technical schools or industries. They all—foreigners and Russians alike—seem to be high-class men. These are the sort of men upon whom the hope of Russia rests. I have found them to be the kind of men in whom one would have faith. They inspire confidence. They have ability. They know how to do something better than anybody else. But as yet Russia has not enough of these men who are technical managers.

Let no one get the idea that Russia is rushing pell-mell toward autocratic Stateism. The Communists who would take it there are a small minority. The cooperators outnumber them ten to one. And the cooperative movement goes on. It is widespread and deep in the hearts of the people. It is not spectacular, it makes little noise, it is slow and steady; but it is accepted as a principle throughout Russia. Among the great mass of Russian workers, the farmers, cooperation is theoretically more acceptable than any other plan of action and practically it gives them greater satisfaction. Russia is a land of farmers. The working class of Russia is largely farmers. The small minority of industrial workers and theorists of the cities will not be able forever to dictate the form of organization under which these farmers shall live. Political parties come and go. They have their little reign of power and they perish. But cooperation is eternal.

## Cooperation in Certain Foreign Countries

#### Argentina

THE International Cooperative Bulletin (London), of March, 1925, quotes La Cooperacion Libre (Buenos Aires) as authority for the statement that the chief council of the Museo Social Argentino has decided to establish a center of cooperative studies, the duties of which will include the following: The recording of everything of interest in the development of cooperation in Argentina; the supervision of the movement "to see that the principles of cooperation are honestly applied"; the spreading of the cooperative idea through lectures, meetings, etc.; the establishment of connections with similar institutions in other countries; the organization of a free consultative and advisory service for cooperative societies; and efforts toward the passage of cooperative laws.

### Czechoslovakia

A RECENT report of the Czechoslovak Statistical Office (No. 63, 1924) contains data as to Czechoslovak 1924) contains data as to Czechoslovak cooperative societies engaged in farming their own or rented land. At the end of 1923 there were 346 such societies in operation, of which 274 were located in Bohemia, 64 in Moravia, 6 in Silesia, and 2 in Slovakia.

#### Italy

THE October-December, 1924, issue of the International Review of Agricultural Economics (Rome) contains (pp. 603, 604) a summary of the 1923 report of the Association of Italian People's Banks. Inquiry was made of 829 banks, but only 416 reported. These 416 had in 1923, a membership of 498,756, capital amounting to 385,534,000 lire 1 and deposits amounting to 3,969,405,000 lire.

#### Scotland 2

DURING 1924, the Scottish Cooperative Wholesale Society had sales of £17,307,707,3 which represented an increase of £47,806 over those of the year before. Goods manufactured in the society's productive departments were valued at £5,453,360, an increase of £298,027 over 1923. A saving of £176,377 was realized on the year's operations, of which £137,354 is to be returned as dividends on purchases.

South Africa 4

IN October, 1923, there were in existence in South Africa 166 agricultural cooperative societies, of which 80 were unlimited-liability and 86 were limited-liability societies. There were also 9 "co-operative trading companies" with a membership of 8,551.

There are maize-marketing societies in nearly every maize-producing district of the Transvaal and Orange Free State. On June 30, 1923, these societies numbered 25 and they had a membership of 8,112, and a business for the year of £577,293,3 of which £126,834 represented purchases of supplies for members. These societies, it is stated, are suffering a severe setback through having advanced to their members more than was realized from the crop, due to a great fall in prices.

There are four tobacco producers' societies in operation, one of which, that at Magaliesberg, has had conspicuous success. On June 30, 1923, this society had a membership of 3,582, a reserve fund of £42,866, and a business for the year of £91,481. have been made to establish other societies of this type but not until recently has it become apparent that the volume of business would justify such a step. The Government has now decided to assist financially the erection of cooperative stores for such societies.

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Lira at par=19.3 cents; exchange rate varies.
 International Cooperative Bulletin, London, March, 1925, pp. 90, 91.
 Pound at par=\$4.8665; exchange rate varies.
 International Institute of Agriculture. International Review of Agricultural Economics, Rome, October-December, 1924, pp. 609-613.

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The export of fruit is handled by the Fruit Growers' Exchange. Considerable difficulty has been experienced in this field, due to the fact, it is said, that the organization began from the top and many of the local affiliated societies "hardly carry on active operations as cooperative undertakings at all."

Efforts to organize the cotton growers have met with considerable success. In 1922, "more than half of the cotton lint produced within the country was handled by cooperative societies." On June 30, 1923, there were four such societies (with a membership of 944) and

a Central Cooperative Cotton Exchange formed in 1922.

An interesting form of cooperation has been adopted on a small scale by meat producers at two centers in Natal. Cooperative butcheries have been set up and members deliver slaughter stock to them in rotation. The owners of the stock receive the actual amount realized by retail sale, less a fixed sum deducted to pay for the butcher employed and for native labor, the butcher receiving a certain sum for each animal handled. This system is only suitable for small villages, but it is claimed for the two societies that their operations have resulted in a higher price for the supplier of the stock and a lower price for the consumer.

In most instances the marketing of wool is handled as a side line, but there are now three societies which specialize in this business.

Other cooperative societies include the Cooperative Wine Growers, a society with a membership of 2,800 but facing a period of depression; 17 dairy societies; and some 58 livestock societies. This last type of society is a new development, formed for the purpose of allowing poorer farmers to acquire livestock and farm implements, the credit of all members being pooled and loans obtained from the Government on the basis of this credit.

### Spain

THERE are in affiliation with the Federation of Cooperative Societies of Northern Spain 43 local societies, according to an article in the March 1, 1925, issue of La Coopération Belge (Brussels). These societies in 1924 did a business amounting to 3,462,421 pesetas.<sup>5</sup>

The Federation of Catalonian Societies is a union of three provincial unions whose importance is shown by the following figures:

MEMBERSHIP AND BUSINESS OF SOCIETIES AFFILIATED WITH FEDERATION OF CATALONIAN SOCIETIES

videor A 188, 183, to as von 201 acons	Number of affiliated societies	Number of members	Amount of business
Union of Barcelona	95 22 13	10, 599 7, 108 1, 552	Pesetas 16, 560, 686 3, 781, 348 1, 276, 244
Total	130	19, 259	21, 618, 278

Peseta at par=19.3 cents; exchange rate varies.

Under the provisions of the Spanish land settlement act of August 30, 1917, 17 land settlements, mostly in mountainous districts, have been formed, according to the March 9, 1925 issue of Industrial and Labour Information (Geneva), and 10,500 hectares (25,946 acres) of land are under cultivation by the 1,215 settlers to whom allotments have been made. The purpose of the scheme is to distribute land to working-class families showing an aptitude for agricultural labor. After "five years of unbroken tenancy," such families become the owners of the land granted.

The new settlers are required to form a cooperative society to handle all matters relating to credit, savings, mutual aid, land improvement, buying of supplies, and marketing of produce. Such societies are subsidized by the State and are affiliated to the Federa-

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iderion to this committee to show that he is able, both physically and anothely, to most the requirements of his trade. If he successes up to be is instanted to a contractor, and thereafter for four years

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### WORKERS' EDUCATION AND TRAINING

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### Graduation of Building-Trades Apprentices in Cleveland, Ohio

OR several years past, training courses for building-trades apprentices have been maintained in the Cleveland public schools, and in April of this year the first group of apprentices were publicly and formally presented with diplomas. The formal graduation is a new departure, and an elaborate commencement program was planned to give impressiveness to the occasion. The graduates numbered 150, divided among the classes in carpentry, plumbing, and bricklaying.

Courses in these three trades were the first to be established, and their work has proved so satisfactory that in January of this year courses in painting and electrical work were started. At present, according to the American Contractor of March 21, 1925, approximately 1,000 apprentices are attending the part-time courses in these five trades, and there is a long waiting list of boys anxious to enter as soon as places can be found for them.

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The Cleveland plan involves the cooperation of the school authorities, the unions, the contractors, and the manufacturers and dealers in building materials. Part of the cost of carrying on the courses is met by the Federal Government, under the terms of the Smith-Hughes Act, and the remainder is provided by the local board of The building materials used are supplied by local manufacturers and dealers, free of charge. The course in each trade is under the supervision of a committee made up of representatives of the board of education and of the contractors and the unions in that trade.

The boy who wishes to become an apprentice must pass an examination by this committee to show that he is able, both physically and mentally, to meet the requirements of his trade. If he succeeds in this, he is indentured to a contractor, and thereafter for four years his trade work and school work are correlated so as to give him both the manual dexterity and the technical and theoretical training Throughout the entire period of apprenticeship four hours each week must be given to the school work, and for this his employer is to pay him the regular time rates. If a contractor finds hinself unable at any time during the four-year period to employ a boy indentured to him, the boy is temporarily transferred by the committee to another contractor who can give him work, and in this way continuous employment is insured. This is considered an exceedingly important feature, for where no such system exists, an apprentice may find himself out of work for months at a time, and may as a natural consequence lose interest in the trade, look for a job at which he can be sure of steadier employment, and gradually come to prefer the work he thus takes up and drop out of the building trades altogether. Even when this does not occur, he loses just

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so much of the time which should have been devoted to training in the trade he has chosen. Under the Cleveland system, on the other hand, at the close of his apprenticeship the youth has had four years of steady work, so planned as to give him a progressive training in the fundamentals, both manual and technical, of his craft.

### Protection of Apprentices in Austria

#### Pre-war Conditions

IN FEW of the European countries have industrial apprentices been so exploited and so inhumanely treated as in Austria until after the World War. According to a recent publication of the Lower Austrian Chamber of Labor, a trade-union investigation made in 1892 brought out the fact that there was a regular trade in apprentices. Dealers traveled through Bohemia collecting boys, mostly orphans, whom they brought to Vienna, where they sold them as apprentices at from 2 to 3 gulden (about \$0.80 to \$1.20) per head to handicraft masters, especially to turners, carpenters, shoemakers, and machinists. The period of their apprenticeship was generally five years—years of abuse, hunger, and long hours. Their hours of labor were from 5 a. m. to 8 p. m., and after the regular hours of work they still had to clean up the shop. Their dinners usually consisted of potatoes and a soup made of flour and fat and on fast days (Fridays) they received only a dry bread pudding. At supper they were given a piece of bread and 4 kreuzer (about 2 cents). In addition to being fed poorly they were given plenty of beatings. Some of the handicraft masters employed as many as six apprentices and only one journeyman.

Owing to ill treatment many apprentices ran away from their . masters to complain to the police authorities, but these generally gave the apprentices merely the choice between deportation to their home town or return to their brutal masters. A jury trial in 1896 of a master turner accused of ill treatment of his apprentices showed that of 43 boys apprenticed to him only 11 went through their full apprenticeship training and became journeymen while the remaining 32 ran

Nevertheless the defendant was acquitted.

Although there were a few societies which had as their object the protection of apprentices, their activities covered only a relatively

small number of apprentices.

Even after the amendment of the Industrial Code on February 5, 1907, the apprenticeship conditions continued to be bad. An improvement came with the rapid growth of the free (socialdemocratic) trade-unions, which in a periodical, "Meisterlehre," began to combat the abuses of the apprenticeship system. In this the trade-unionists were greatly aided by the journeymen's representatives in the guilds, who on January 1, 1906, founded the Central Office for the Protection of Apprentices. During the period of its existence (1906-1921) this office accorded protection to apprentices in about 9,000 instances. The office was, however, greatly hampered by lack of funds, since it depended entirely on the meager revenues of the journeymen's committees of the guilds.

<sup>&</sup>lt;sup>1</sup>Austria. Kammer für Arbeiter und Angestellte in Niederösterreich. Lehrlingsschutz und Lehrlings-Fürsorge der Wiener Arbeiterkammer 1921–1922. Vienna, 1923. 124 pp.

#### Postwar Conditions

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AFTER the war the working conditions of apprentices improved rapidly. Various protective labor laws enacted between 1918 and 1921 have accorded them a number of rights. However, unless the trade-unions and works councils look after the protection of apprentices, the latter enjoy these rights in a limited degree only, because proper enforcement of the protective provisions has not yet been provided. The Federal law of July 14, 1921, on the introduction of factory inspection, provides that the factory inspectors shall see that the protective laws, decrees, and orders relating to the training of juvenile workers and apprentices are enforced, but until recently no special inspector has been assigned to this task.

In June, 1921, the Ministry of Social Welfare, the municipal administration of Vienna, the Vienna Chamber of Commerce and Industry, and the Lower Austrian Chamber of Labor held a conference for discussing measures for the reform of the apprenticeship system and of welfare work for apprentices. These conferences resulted in an agreement between the municipality of Vienna and the Lower Austrian Chamber of Labor to establish jointly a vocational guidance office in connection with an employment office for male and female juvenile workers. In addition, the Lower Austrian Chamber of Labor established in November, 1921, an office for the free legal protection of apprentices which absorbed the Central Office for the Protection of

Apprentices.

By the end of 1922 the office for the legal protection of apprentices, founded by the Lower Austrian Chamber of Labor, had established 22 branches and had over 250 volunteer agents. The report for the period ending December 31, 1922, shows that it received 4,064 justi-•fied complaints from apprentices which led to intervention. Most of these complaints related to illegal hours of labor (1,116), too low or illegal remuneration (1,015), failure to grant a food bonus (426), board and lodging (363), insufficient vocational training (210), and refusal of vacation (110). Complaints of ill treatment were relatively few (37). In 594 cases the intervention of the office resulted in cancellation of the apprenticeship, while 510 complaints of apprentices were rejected as unjustified. In addition, approximately 1,800 apprentices called in person at the office to obtain advice as to wage rates, cost-of-living bonus, hours of labor, vacation, etc., and 350 made similar inquiries by mail. The office also purchased through the Austrian Cooperative Wholesale Society 5,000 overcoats and sold them at low prices to apprentices.

Having established the fact that the provisions of the industrial code with respect to the conclusion of apprenticeship contracts were being observed in rare instances only, the Lower Austrian Chamber of Labor informed the industrial authorities, the communes, and the guilds that it would insist on the strictest observance of these provisions. It also issued a leaflet "Memorandum for children leaving school and for their parents," 20,000 copies of which were handed to children leaving school. In this leaflet they were informed that the office for the protection of apprentices had drafted a model apprenticeship contract, that forms of this model contract were to be had free of charge at the office, and that, if a guild contract form was to be used the parents should, before signing the contract, bring it to

the office so that the form could be inspected for objectionable clauses. The Chamber of Labor also conducted a campaign among guilds with a view to having them adopt the chamber's model apprenticeship contract. This campaign was very successful as a large number

of guilds sent in orders for forms of this contract.

This model contract provides for a 44-hour week, for apprentices under 18 years of age, with Saturday half holiday and for time and a half for overtime. It also provides for a vacation of two weeks with full pay for apprentices under 16 years of age who have worked

one year, and of one week for those over 16 years of age.

According to article 98a of the Industrial Code the period of apprenticeship in factory trades may not be less than 2 and not more than 3 years, and in handicraft trades not less than 2 and not more

than 4 years.

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Remuneration of apprentices was formerly optional with the mas-Article 99 of the Industrial Code merely provided that the apprenticeship contract should contain the conditions of "possible" remuneration of the apprentice. Under an amendment to the code enacted by the National Assembly on July 11, 1922, three new articles were inserted which fix the remuneration of apprentices as follows:

After the completion of the first third of the apprenticeship period apprentices are entitled to a remuneration to be fixed by the guild and journeymen's committees, with due consideration of the trade branches and of local conditions. In the case of boys apprenticed to masters not belonging to a guild the remuneration is to be fixed by a committee of the district industrial commission composed of two representatives each of employers and workers and after a hearing of employers' and workers' representatives of the trade group concerned. The rates thus fixed are to be revised semiannually. pay of apprentices may also be fixed by collective agreement, provided that the rates so fixed are not less favorable than those fixed by the guild or the district industrial commission of the locality and trade in question. The rates fixed by guilds or district industrial

commissions must be published in suitable form.

In individual trades in Vienna and Lower Austria a gross disproportion exists between the number of apprentices and journeymen employed, and this in spite of the fact that Article 100a of the Industrial Code provides that the guild by-laws shall regulate the ratio of apprentices to journeymen. The Lower Austrian Chamber of Labor has therefore petitioned the provincial governments to remedy this situation, with the result that these have issued orders to all political and municipal authorities not to approve by-laws of guilds which do not explicitly fix the proportion of apprentices and journeymen. This proportion varies greatly in the individual trade guilds. Most of them allow masters to employ one apprentice for every two journeymen employed, while in some trades the corresponding proportion has been fixed at 1 to 3, 1 to 4, or even 1 to 5. A few guilds also limit the total number of apprentices that any one master may

From the preceding data it will be seen that, although the apprenticeship conditions are by no means entirely satisfactory, a great improvement has taken place as compared with pre-war times.

## English Plans for Increasing Apprentices in Building Trades

A S PART of the campaign for increased house building, the English Minister of Health appointed in October, 1924, a national building industry committee to coordinate and more or less direct the work of a number of local committees of the same character. This committee has recently issued a memorandum concerning apprenticeship, the main points of which are given in the

Ministry of Labor Gazette (London) for February, 1925.

In the main, the purpose of the memorandum is to secure the adoption of the recommendations made in April, 1924, by the national house building committee. (See Monthly Labor Review, July, 1924, p. 185.) To this end, it is urged that all contracts made by local authorities for the erection of houses should contain a stipulation that the contractor with whom they are made shall employ not less than one-third as many apprentices as journeymen employed by him on or in connection with the work with which the contract is concerned. "This clause is subject to an overriding maximum of one apprentice to three craftsmen in the area of the local building industry committee."

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Special forms of indenture are offered for use in the case of those entering apprenticeship above the normal age limit, and it is suggested that such entrants should serve a probationary period before being accepted. The matter of training building laborers receives

special attention.

The committee call special attention to the recommendations regarding the apprenticeship of building trade laborers and others having previous knowledge of the trade. These are described in the memorandum as "adult" apprentices, as they may be apprenticed at an age even beyond the extended age (20 years) permitted under the scheme for fresh entrants into the building trades. In another appendix the memorandum contains a suggested form of apprenticeship for such "adult" apprentices, which provides, inter alia, that the rate of wages for these apprentices shall be the agreed laborer's rate for the first year of the term of apprenticeship, and thereafter successively 80, 90, and 95 per cent of the current standard rate of craftsmen, until the end of the third year, when the full standard rate of craftsmen becomes payable.

The general plan involves cooperation with the educational authorities, who, the memorandum suggests, may often be able to help in selecting youths suitable for apprenticeship and likely to develop into good craftsmen. Further, plans are suggested for supplementing the craft training of apprentices by classes for technical training, held either in the daytime or in the evening.

The Minister of Health has issued a circular to the local authorities, indorsing the suggested proposals, and stating that he intends to make approval of housing schemes conditional upon their containing the

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apprenticeship clauses recommended in this memorandum.

#### STRIKES AND LOCKOUTS

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MILTER BORLEY

### Strikes in Buenos Aires, First Half of 1924

A CCORDING to an official report on strikes in the Federal capital of Argentina, in the first six months of 1924 there were 36 strikes affecting 216,986 workers and causing a loss of 854,994 working-days and an estimated loss of wages amounting to 4,504,142.90 pesos.<sup>3</sup>

The following table shows the number of strikes and strikers and the average number involved in each strike according to industries:

NUMBER OF STRIKES AND STRIKERS IN BUENOS AIRES DURING THE FIRST SIX MONTHS OF 1924, BY INDUSTRY

The second second	0.15/000	Stri	kers			Strik	ters
Industry	Num- ber of strikes	Num- ber	Average per strike	Industry	Num- ber of strikes	Number	Average per strike
FoodTobacco	2 1	26 12 360	13 12 360	Polygraphy	4 6	580 3, 156	143 526
Clothing Lumber Metallurgy	9	184 204 295	46 23 98	ware Others not specified	2 3	1,600 209,964	800 69, 988
Construction	3	600	600	Total	36	1 216, 986	6, 027

<sup>1</sup> This is not the exact sum of the items, but is as printed in the report.

Of the 216,986 strikers, 156,976 were men, 44,726 were women, and 15,284 were minors.

The following table shows the causes of the strikes, the number of working-days lost, and the estimated wages lost:

NUMBER OF STRIKES, DAYS LOST, AND ESTIMATED WAGES LOST, BY CAUSE OF STRIKE

[Peso at par=96.48 cents; exchange rate varies]

Cause of strike 100 At 611 187	Number of strikes	Number of working-days lost	Estimated wages
Wages. Hours Organization Labor conditions Other causes.	8 2 21 1	26, 228 19, 600 38, 238 50 770, 878	Pesos 176, 913. 60 152, 000. 00 259, 752. 30 250. 00 3, 915, 227. 00
Total	36	854, 994	4, 504, 142. 90

In general, the strikes were unsuccessful from the standpoint of the workers, only 2 being won, while 2 were partly successful and 32 were lost.

Peso at par-96.48 cents; exchange rate varies.

<sup>&</sup>lt;sup>1</sup> Argentina. Departamento Nacional del Trabajo. Boletin, Buenos Aires, November, 1924, pp. 1450, 1456.

### Strikes and Lockouts in Belgium in 1924

A SUMMARY of the strikes and lockouts occurring in Belgium during 1924, classified by industries and by causes, is given in the Belgian Revue du Travail, February, 1925 (pp. 290-292).

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There were 186 strikes settled during the year, which affected 88,455 workers 82,747 of whom were strikers, the remainder, 5,708, being forced out of employment by the strikes. During the same period there were 2 lockouts affecting 1,700 workers. The 186 strikes involved 657 enterprises and the 2 lockouts 53.

The following table shows the number of strikes occurring in the various industries, the number of establishments affected, the number of strikers, and the number of other workers unemployed because of the strikes:

STRIKES IN BELGIUM DURING 1924, BY INDUSTRY

Industry	Num- ber of	Num- ber of estab- lish-	Num wor invo		Industry	Num- ber of	Num- ber of estab- lish-	Numb work invol	Kers
Middle Spinis		ments	Direct- ly	In- direct- ly	Num- [age per la		ments affect- ed	Direct- ly	In- direct ly
Book. Building Chemical Clothing Commerce Food Glass Hides and skins Instruments of precision Metal	3 9 12 13 2 1 1 13 1 37	2 124 13 59 3 1 1 14 2 83	35 1, 921 1, 214 1, 239 186 50 175 715 154 8, 875	3 52 68 5 5	Mines Paper Pottery Quarries Textile Transport Wood and furniture Total	17 2 17 6 28 11 13	86 5 75 38 36 25 90	48, 879 1, 219 3, 654 5, 386 2, 609 4, 214 2, 222 82, 747	2, 98 1, 47 70 4 5, 70

The most important cause of strikes was the demand for increased wages, which caused 136 strikes and involved 71,974 workers. The next most important causes were protests against the dismissal of workers and demands for reinstatement of discharged workers, which resulted in 22 strikes including 4,888 workers, and the question of labor organization, which caused 11 strikes and involved 1,127 workers. Of the remaining 17 disputes, which affected 4,758 workers, 7 were caused by trouble over the labor contract, 5 by trade-union questions, 4 by dismissal of foremen, and 1 was over the length of the workday. The questions of an increase in wages and of the establishment of a labor contract were each the cause of 1 lockout.

Forty-five strikes, with 11,229 strikers, were settled in favor of the workers, 78, with 26,484 strikers, in favor of the employers, and 63 strikes, with 45,034 strikers, and the 2 lockouts were ended by a compromise.

### Labor Disputes in Finland in 1924 1

IN FINLAND 31 labor disputes involving 266 employers and 3,051 workers were reported as having taken place in 1924. Of these, 25 were reported as strikes, 3 as actually neither strikes nor lockouts, and reports conflicted as to the remaining 3 disputes.

<sup>&</sup>lt;sup>1</sup> Finland. Socialministeriet. Social Tidskrift No. 3, 1925, pp. 200-207.

The greatest number of disputes (5) took place in the clothing industry, while the sawmill industry had the largest number of workers involved (766). Nine disputes affected less than 25 workers each and 11 over 100 workers. The most extensive dispute involved 400 workers. The average number of workers affected per dispute was 98.

Over half the disputes in 1924 lasted less than 2 weeks each, the average duration being 23.2 days. The number of days lost through disputes in 1924 was 46,709 as against 261,473 in 1923. The wage loss in 18 disputes for which data on this point were secured amounted

to 1,474,367 marks.2

Reports covering 22 disputes affecting 2,066 workers, or 67.7 per cent of the total number of workers involved in the disputes of 1924, show that 1,186 or 57.4 per cent were organized into trade-unions.

Twenty seven or 87.1 per cent of all the disputes were caused by disagreements over wages. About half of all the disputes, affecting about one-third of the workers, resulted in a compromise.

Conciliators appointed by the Ministry of Social affairs officiated in 2 disputes.

On April 3, 1925, there were 44 strikes before the department

reached the strike stage. Total number of cases pending, 78,

Finnish mark at par=19.3 cents; exchange rate varies.

### CONCILIATION AND ARBITRATION

or, while the samual industry, had the derest amount of a withing (168). Nine disputes aborted deed than 25 we have and 'I over 100 weekers. The cost, extension dispute to

Conciliation Work of the Department of Labor in March, 1925

By Hugh L. Kerwin, Director of Conciliation

THE Secretary of Labor, through the Conciliation Service, exercised his good offices in connection with 61 labor disputes during March, 1925. These disputes affected a known total of 34,388 employees. The table following shows the name and location of the establishment or industry in which the dispute occurred, the nature of the dispute (whether strike or lockout or controversy not having reached strike or lockout stage), the craft or trade concerned, the cause of the dispute, its present status, the terms of settlement, the date of beginning and ending, and the number of workmen directly and indirectly affected.

On April 1, 1925, there were 44 strikes before the department for settlement and, in addition, 34 controversies which had not reached the strike stage. Total number of cases pending, 78.

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Parament of a labor contract wate each the cause of tributes.

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N LINEAND TO labor disputes involving 300 explored

Total Contract to the last of the last of

	Nature of	Target Comments			Dare	Duration	Men in- volved	-ipe
Name of company and location	controversy		Cause or dispute	kresent status and terms of settlement	Begin- ning	Ending	Direct-	Indi- rectly
Lang & Sons, contractors, Columbus,	Controversy	Building	Open or closed shop	Pending	1925	1925	255	75
Ohio. Painters, paper hangers, and decora-	do		Asked 25 cents per hour	Adjusted. Present scale \$1 per hour	Feb. 11	Mar. 1	350	
Carpenters, Greensburg, Pa.	do	- do	Asked 12% cents per	Pending.	No los	Mary Mary	125	
Bricklayers, Des Moines, Iowa	do	-do	Asked \$2 per day in-	Adjusted. Workers accepted \$12 per	Jan. 1	Feb. 25	250	
American Thread Co., Willimantic,	Strike	Textile	Wage cut of 10 per cent	day, no increase.	Mar. 6	Mary H	2, 500	
Simbroco Cast Stone Co., Boston,	do	Stonecutting	Jurisdiction	Adjusted. Molders joined stone cut-	Jan. 28	Feb. 19	15	135
Kaustine Plant, Perry, N. Y.	do	Metal tanks	Wage cut.	Adjusted. Compromised on rates and	Feb. 23	Mar. 3	15	25
Progressive Silk Mills, Hazelton, Pa Building Trades, Columbus, Ohio Public Service Electric & Gas Co	do Controversy Strike	Textile, silk. Building.	Discharge of foreman Wages and conditions	Adjusted. Foreman reinstated. Pending. Adjusted. Compromise agreement	Jan. 21 (1) Mar. 9	Jan. 22 Mar. 11	300	700
Kearny, N. J. Sheet-metal workers, Indianapolis,		do.	Wage negotiations	Pe	Jan. 1	Mar. 2	200	4, 500
Building trades, Des Moines, Iowa Carpenters, Pottsville, Pa	do	do	do 12% cents per	Pending	Jan. 1 Mar. 7	Mar. 18	650	2,200
Carpenters, St. Clair, Pa.	do	op Qo	do d	op	do		33	
Carpenters, Shenandoah, Pa.	do	op	op	op	op-		EE:	
Carpenters, Mount Carmel, Pa. Carpenters, Lansford, Pa. Carpenters, Frackville, Pa.	00 00 00 00	do	do do	00 op	999		333	
Carpenters, Centralia, Pa. Shoe workers, Derry, N. H.	do	do do	Gonditions and recogni-	do Adusted Recognition granted no	Feb. 25	Mar. 12	382	300
Artificial Silk Fabric Association, New		Textile, silk	tion.	nation.	3		200	
Steam fitters, Pittsburgh, Pa	do	Building	Asked \$1 day increase	Adjusted. Compromised on 50 cents increase—\$11.50 per day.	Mar. 11	Mar. 23	8	

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do Weaving textiles Versing conditions Adjusted Returned on compromise Mar. 31 Mar. 21

Alan Wood Steel Plant, Conshohooken, Pa, Pa, Brattleboro, Vt.

LABOR DISPUTES HANDLED BY THE UNITED STATES DEPARTMENT OF LABOR THROUGH ITS CONCILIATION SERVICE, MARCH, 1925-

Angelot Eth Labels Tree-spiper Man	Nature	Tourille Alle	do.	Georgian Control	Dur	Duration	Men in-	-ip
Name of company and location	controversy	Crate	Cause of dispute	Present status and terms of settlement	Begin- ning	Ending	Direct-	Indi- rectly
Chicago Belting Co., Chicago, Ill  Famous Tailoring Co., Cincinnati, Ohio.  Mount Hope Mines, Wharton, N. J  Pleaters and stitchers, New York City Plumbers, Indianapolis, Ind  City Ice & Fuel Co., and North Co.  lumbus Ice & Fuel Co., Columbus, Ohio.  Painters, Philadelphis, Ps  Belig Building, Indianapolis, Ind  Balig Building, Indianapolis, Ind  Loundee Co., New Haven, Con  Lackawana Pants Mig. Co., Scranton, Pa.  Lackawana Pants Mig. Co., Scranton, Pa.  Plasterers and bricklayers, New York City.  Republic Brass Co., Los Angeles, Calif.  Chas. B. Salyer Co., Boston, Mass  Edward Goldman, Boston, Mass  Building trades, Louisville, Ky	Controversy dodododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododododod	Leather  Talloring Carpenters and sheet metal workers Metal mining Garment industry Plumbing Lee and fuel industry do do Walters Building Building Gothing Metal polishing Clothing industry	The right to organize—  The right to organize—  Topen or closed shop—  Jurisdiction  Turisdiction of cork work  Wages and new agree—  Turisdiction of cork work  Jurisdiction of stone  Jurisdiction of agreement allowed—  Jurisdictions and wage cut allowed—  Jurisdictions and wage cut allowed—  Jurisdictions and wage cut allowed—  Jurisdiction of stone  Jurisdiction of stone  Jurisdiction of stone  Jurisdiction of stone  Jurisdiction of agreement allowed—  Agreement and jurisdiction  Conditions and wage cut allowed—  Agreement and jurisdiction of plumbers  ()  ()  ()  ()  ()  ()  ()  ()  ()  (	bers renounced union.  anged.  en shop adopted;  mployed.  turned before arrival  shop in effect; no llowed.  and working agree- wed 1924 wage scale al strike in effect.  firms have signed at divided between plasterers.  se of 50 cents per day ilssioner advised agent g of stone awarded to  turned before arrival d to pay former rate employees.	Mar. 14 Jan. 5 Mar. 16 Feb. 15 Mar. 20 Mar. 27 Mar. 17 Mar. 17 Feb. 20 Mar. 16 Mar. 16 Mar. 16 Mar. 16 Mar. 16	Mar. 21  Mar. 19  Mar. 15  Mar. 18  Mar. 25  Mar. 25  Mar. 25  Mar. 25	2002 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 2000 2 20	001 00,000,6 00,000 28,2 28,2 20,000

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19, 287	15, 101							Total
	40		Mar. 17	by company. Pending	crease. Wages and conditions	Hoslery knitting	do	N. Y. Rivoli Silk Hosiery Co., Plainfield, N. J.
2,500	800		Mar. 25	from April 1, 1924, on "tripper-run" service. Unable to adjust. Mediation refused	award. Asked 20 per cent in-	Carpet weaving	Strike	Stephen Sanford & Son. Amsterdam.
1,000	350 625	Mar. 26 Mar. 31	Feb. 1 Mar. 26	Adjusted. Wages to be retroactive	Asked interpretation of	Traction	do do	Bricklayers, Indianapolis, Ind.
	300	Mar. 20		Aujusteu. Agreed on 1924 scale of wages.	wage negotiations		Controversy	rainters, Indianapolis, Ind.
	900	Poh 1K Mor 9k		Adinated Amend on 1094 and of	hour increase.		Controvared	Daintare Indiananalis Ind
140	450		3	op	Asked 12% cents per	Carpenters, etc	do	Star Doll Co., New York City. Building trades, Hazelton, Pa.
UT			y10		E of I	shoes.	isto isti	Goods Co., Perfect Doll Co., B. & S. Doll Co., Progressive Doll Co.,
	120			9.0	Warking conditions	Doll and infant	Stelle	Co., Scranton, Pa.
	200	Mar. 27	Mar. 23	Adjusted. Wage scale for 1924 re-	Asked 15 per cent in-	Packing	Controversy	Armour & Co., Wilson Co., Diamond
	1,150		Mar. 27	ор	Conditions and renewal	op op	Strike.	Steamfitters, Washington, D. C. Building trades, Boston, Mass.
	(3)		Feb. 9 Mar. 25	op	Asked \$1 per day in-	Employees	Strike	Howard Theater, Washington, D. C
10	31	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Feb. 12	Pending	Wages, hours, and con-	Upholsterers	do	I. Greenspan, New York City
15	120	Mar. 21 Mar. 14	Mar. 31 Feb. 1	Adjusted. Returned on compromise Adjusted. Conditions Improved and	Working conditions Recognition of molders,	Weaving textiles	op do	Dummer Mills, Brattleboro, Vt.
2,000	200		Feb. 14	Pending	Asked 20 per cent in-	Steel industry	do	Alan Wood Steel Plant, Conshohock-

Not reported.

[1185]

#### **IMMIGRATION**

### Statistics of Immigration for February, 1925

By J. J. Kunna, Chief Statistician U. S. Bureau of Immigration

Augus Septen Octobe

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THE figures for February, 1925, show a total of 30,828 aliens (20,913 immigrant and 9,915 nonimmigrant) admitted and 10,214 (4,087 emigrant and 6,127 nonemigrant) departed, resulting in an increase to our alien population for the month of 20,614, compared with 15,776 in January, 1925. The number of aliens debarred and deported during February was 1,624 and 900, respectively, the principal cause for returning them to the country whence they came was that they were without proper visas under the immigration act of 1924.

The countries contributing more than 1,000 each of the 20,913 immigrant aliens admitted in February, 1925, were Canada (5,680); Germany (3,093); Mexico (2,427); Irish Free State (2,070); and England (1,124). Of the 4,087 emigrant aliens departed this month,

1,050, or 26 per cent, were Italians going to Italy.

About 16 per cent of the immigrants in February were under 16 years of age; 74 per cent were between 16 and 44 years of age; and 10 per cent were 45 years of age and over. Of the emigrants 5 per cent were under 16 years of age; 75 per cent were from 16 to 44 years; and 20 per cent were 45 years and over. Of these two classes, males constituted 55 per cent and females 45 per cent of the immigrants and males 78 per cent and females 22 per cent of the emigrants.

The country or area of birth of the 30,820 aliens admitted in February under the immigration act of 1924 is shown in Table 4. Eight aliens who arrived before the effective date of the act were admitted in February, 1925, making a total of 30,828 admissions

during this month, as shown in Table 1.

Of the 18,984 nonimmigrant and nonquota immigrant aliens in February, 10,606 were admitted as natives of nonquota countries; 3,879 as returning residents; 2,123 as temporary visitors for business or pleasure; 1,109 as persons passing through the country; 901 as wives and children of United States citizens; and 366 of the other admissible classes not charged to the quota, including ministers and professors and their wives and children, Government officials, students and admissions to carry on trade under existing treaty.

[1186]

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TABLE 1.-INWARD AND OUTWARD PASSENGER MOVEMENT, JULY, 1924, TO FEBRUARY, 1925

		LOTE	Inward				•	Outwar	d		
Period	Alie	ns admi	tted	United States	Total	Alie	ns depa	rted	United States		Aliens de-
	Immi- grant	Non- immi- grant	Total	citi- zens ar- rived	ar- rived	Emi- grant	Non- emi- grant	Total	citi- zens de- parted	Total de- parted	barred
1924 July	11, 661 23, 290 27, 941 27, 402 29, 345 28, 098	20, 057 17, 822 12, 386 -9, 612 8, 880	37, 256 47, 998 45, 224 41, 731 37, 710 29, 832	44, 791 57, 232 31, 474 22, 297 17, 219	64, 028 54, 929 46, 819	8, 633 8, 671 8, 941 8, 605 14, 288	15, 747 14, 738 14, 580 12, 067 9, 645 10, 895 7, 873	23, 251 21, 008 18, 250 25, 183	37, 657 23, 849 19, 951 14, 741	61, 028 47, 100 40, 959 32, 991 42, 571	1, 929 2, 114 2, 389 2, 341 2, 149 2, 102
February	20, 913 189, 602	9, 915			54, 014		91, 672			33, 425	- C (1)

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as her and ents TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED TO AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES, JULY, 1924, TO FEBRUARY, 1925, BY COUNTRY

100 ANGL OF THE STATE OF THE ST	Imm	igrant	Emi	grant
Country	February, 1925	July, 1924, to Febru- ary, 1925	February, 1925	July, 1924, to Febru- ary, 1925
Albania		55	6	258
lustria	73	504	18	231
Belgium	59	473	2	378
Bulgaria	5	113	3	164
Zechoslovakia	217	1,533	67	1,587
Danzig, Free City of	17	152		
Denmark		1,457	5	376
Esthonia	45	90	05	050
Finland France, including Corsica.	275	300 2, 601	53	253 769
Bermany	3, 093	26, 982	227	1, 829
and Dultain.		20,002		1,023
England	1.124	8, 970	382	4,782
Northern Ireland	32	883	3	171
Scotland	922	7, 599	59	1,575
Wales	52	571	1	40
reece	56	450	340	5, 014
lungary	61	419	18	522
rish Free State	2,070	14, 230	30	642
taly, including Sicily and Sardinia	685	3,399	1,050	22, 818
atvia Lithuania	17	136	4	25
uxemburg	10	63	8	354 11
Vetherlands	123	974	77	429
Vorway	793	3,765	44	1, 127
Poland	620	2, 858	85	2, 470
Portugal, including Azores, Cape Verde, and Madeira		2,000		CAN WESTER
Islands	. 68	397	74	2, 938
lumania	145	774	39	955
lussia	157	1,096	51	286
pain, including Canary and Balearic Islands	20	196	78	3, 161
weden	966	5, 717	60	628
witzerland	140	1,197	17	330
urkey in Europe	32 73	170	88	97
then T	16	90	2	1,775
Ader Europe	10	90		02
Total Europe	12, 259	88, 999	2, 917	56,062
The state of the s				

TABLE 2.—LAST PERMANENT RESIDENCE OF IMMIGRANT ALIENS ADMITTED TO AND FUTURE PERMANENT RESIDENCE OF EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES, JULY, 1924, TO FEBRUARY, 1925, BY COUNTRY—Continued

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Male Fem

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			raw to O	Imm	igrant	Emi	grant
borsas	TatoT'	fotbally some	Country State of the Country S	February,	July, 1924, to Febru- ary, 1925	February, 1925	July, 1924 to Febru- ary, 1925
Japan. Palesti Persia. Syria Turke	ine			2 58 5 5 13 25 9 44 3 7	11 1,516 48 522 206 26 212 22 67	272 10 27 3 10 5 3	2,33 10 76 5 1 1 27 2 5
			••••••		2, 630	330	3,66
Egypt. Other	Africa.			12 18	93 196	2	1
nets, me	rotal A	frica		30	289	2	10
Austra New Zo Other	ealand_			5	182 91 20	40 13 3	24 11 2
7	rotal P	acific		15	293	56	38
Mexico Cuba West In British Centra Brazil South	ndies (n Hondu I America	ot specializas	ned)specified)	50 2,427 68 26 44 30	76, 863 1, 244 15, 876 858 377 30 687 295	172 25 221 114 135	1, 26 28 1, 95 1, 30 1, 50 1 40 12
Other	countrie	S			3		
T	Total W	estern I	Iemisphere	8, 443	97, 391	782	7,68
G	rand to	otal		20, 913	189, 602	4,087	67.90

TABLE 3.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES, JULY, 1924, TO FEBRUARY, 1925, BY RACE OR PEOPLE, SEX, AND AGE GROUP

Shell a less where the work before the	Imm	igrant	Emi	grant
Race or people	February, 1925	July, 1924, to Febru- ary, 1925	February, 1925	July, 1924, to Febru- ary, 1925
African (black)	28	555	63	74
Armenian		351		7.
Bohemian and Moravian (Czech)		1, 201	72	1, 18
Bulgarian, Serbian, and Montenegrin		331	87	1, 12 2, 24
Creatian and Slovenian	41	1,408	263	2, 24
Juban	23	552	67	85
Dalmatian, Bosnian, and Herzegovinian.	1	34	18	26
Outch and Flemish.	199	2,071	86	82
last Indian	2	33	9	6
English	3, 276	36, 980	593	6, 35
innish	55	453	29	26
rench	1, 228	16, 939	62	78
erman	3, 636	32, 318	253	2, 25
reek		627	343	5,06
lebrew	972	6, 892	6	18
rish	3,000	26, 632	48	1,04
talian (north)	164	1, 169	72	3, 77
talian (south)	600	3, 071	988	19, 13 73
apanese	14	498	26	2
ithuanian	27	14	***************************************	36
	27	199	10	600

TABLE 3.—IMMIGRANT ALIENS ADMITTED TO AND EMIGRANT ALIENS DEPARTED FROM THE UNITED STATES, JULY, 1924, TO FEBRUARY, 1925, BY RACE OR PEOPLE, SEX, AND AGE GROUP—Continued

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bornesty. ALVES WITH	Imm	igrant	Emigrant		
Race or people	February, 1925	July, 1924, to Febru- ary, 1925	February,	July, 1924, to Febru- ary, 1925	
Mexican Pacific Islander Polish Portuguese Rumanian Russian Ruthenian (Russniak) Scandinavian (Norwegians, Danes, and Swedes) Scotch Slovak Spanish Spanish American Syrian Turkish Welsh West Indian (except Cuban) Other peoples	2, 394 2 271 70 37 89 28 2, 223 1, 708 69 26 136 38 9 87 14	15, 497 3 1, 989 434 296 971 543 13, 495 19, 154 369 384 1, 414 293 47 838 188 118	220 90 74 40 61 2 130 105 4 105 88 11 6 2 18	1, 916 2, 442 2, 987 905 509 53 2, 401 1, 999 418 3, 657 849 309 131 600 325 267	
Total	20, 913	189, 602	4, 087	67, 901	
MaleFemale	11, 469 9, 444	103, 917 85, 685	3, 183 904	53, 800 14, 101	
Age group: Under 16 years 16 to 44 years 45 years and over	3, 407 15, 483 2, 023	34, 678 135, 726 19, 198	213 3, 053 821	3, 048 50, 230 14, 623	

TABLE 4.—ALIENS ADMITTED TO THE UNITED STATES UNDER THE IMMIGRATION ACT OF 1924, JULY, 1924, TO FEBRUARY, 1925, BY COUNTRY OR AREA OF BIRTH

[Quota immigrant aliens are charged to the quota; nonimmigrant and nonquota immigrant aliens are not charged to the quota]

A STATE OF THE STA	86	103	Admitted Post of Base of Base			Renn
Country or area of birth	Annual quota	Quota immigrants		Nonim- migrants and non- quota immi- grants	Total during	Number admitted July 1, 1924, to Feb. 28,
7. A 190 1 180 100 1 191 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1 100 1	01.0	July to February	February	February	February	1925
Queta countries: Afghanistan Albania Andorra	100 100 100	46		36	36	2 257 4
Arabian peninsula Armenia. Australia Austria. Belgium <sup>1</sup>	100 124 121 785 512	3 11 97 460 325	2 61 34	14 98 63 108	14 100 124 142	5 76 1,972 1,129 1,301
Bhutan Bulgaria Cameroon (British)	100 100 100	80	3	10	13	171 1108 3
Cameroon (French) China. Czechoslovakia Danzig Denmark 1	100 100 3,073 228 2,789	61 1,600 160 1,487	5 223 13 241	299 152 3 109	304 375 16 350	6, 297 2, 930 183 2, 792
Egypt Esthonia Ethiopia (Abyssinia) Finland	100 124 100 471	64 64 74 301	6 8 50	10 8 70	16 16 120	147 117 1,040
France 1	3, 954	2,199	225	314	539	6, 332

TABLE 4.—ALIENS ADMITTED TO THE UNITED STATES UNDER THE IMMIGRA.
TION ACT OF 1924, JULY, 1924, TO FEBRUARY, 1925, BY COUNTRY OR AREA OF
BIRTH—Continued

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southers		Admitted				
Country or area of birth	Annual quota	Quota immigrants		Nonimmigrants and nonquota immigrants	Total during February	Number admitted July 1, 1924, to Feb. 28, 1925
		July to February	February	February		
nota countries—Continued.			100	11 124 10	720 7	
Great Britain and Northern Ireland 1	51, 227 34, 007	26, 655 18, 990	3, 077 2, 346	1,841	3, 568 4, 187	32,6
Greece	100	18, 990	2,346	1,841	155	42,4
Hungary	473	270	35	82	117	1,4
Iceland	100	50	4		4	1
India	100	39	3	25	28	1
Iraq (Mesopotamia)	100	9	3	3	6	
Irish Free State	28, 567	15, 317	2, 196	195	2, 391	18,
Italy 1	3,845	1,586	293	1,741	2,034	12,
Japan	100	81	4	275	275	2,
Latvia Liberia	142	04		10	14	
Liechtenstein	100	10	2		2	
Lithuania	344	200	33	54	87	1
Luxemburg	100	61	12	7	19	
Monaco.	100	1				
Morocco	100	9	1		1	
Muscat (Oman)	100				**********	4
Nauru (British)	100					
Nepal	1,648	866	91	122	213	2
New Zealand	1,648	866	91	122	213 34	2,
New Guinea	100	123 8 63	M861 137	O'S STORY	40.7	
Norway	6,453	3, 814	794	172	966	5,
Palestine	100	17	10	21	31	0,
Persia	100	55	7	10	17	1
Poland	5, 982	2, 639	475	450	925	5,
Portugal 1	503	325	59	173	232	1,
Ruanda and Urundi	100	987		101	150	1
Rumania.	2 248	1 387	233	101	152 432	1,
Russia, European and Asiatic	2, 248	1, 387	233	199	432	3,
Samoa, Western	100	Carlos S		THE REAL PROPERTY.		
Siam.	100			2	2	
South Africa	100	84	4	17	21	
South West Africa	100	17				
Spain 1	131	91	13	289	302	3,
Sweden	9, 561	6, 075	1,009	185	1, 194	8,
Switzerland	2, 081	1, 151	135	100	235	2,
Syria and The Lebanon	100	60	15	56	71	
Tanganyika	100 100					
Togoland (British)	100					
Turkey	100	95	19	110	129	
Yap and other Pacific Islands	100	1				
Yugoslavia	671	359	28	173	201	1,
Total	164, 667	87, 792	11, 836	8, 376	20, 212	173,
onquota countries:	EX. 34	The W		F 540	= 540	77
Canada Newfoundland				5, 549	5, 549	1
Mexico				4, 120	4, 120	26,
Cuba				257	257	6,
Dominican Republic				67	67	
Haiti				3	3	
Canal Zone Independent countries of Central and						-
Independent countries of Central and South America.				484	484	5
Total		200		10,608	10, 608	118
THE PARTY OF THE P		07 700	11 006			2 292
Grand total	164, 607	87, 792	11, 836	18, 984	30, 820	20-

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<sup>&</sup>lt;sup>1</sup> Including colonies, dependencies, or protectorates.

<sup>2</sup> Does not include 1,335 aliens from quota countries who arrived prior to June 30, 1924, and were admitted after that date.

#### FACTORY AND MINE INSPECTION

# Arizona

THE State mine inspector of Arizona, in his thirteenth annual report, presents the following summary data as to the activities of his office during the year:

Mines and leases inspected, Dec. 1, 1923, to Dec. 1, 1924	128
Inspections made	323
Serious and minor accidents	
Fatal accidents	40

#### Massachusetts

A STATEMENT submitted by the Department of Labor and Industries of Massachusetts shows that during the month of February, 1925, there were 4,304 inspections made by the department, 1,252 orders were issued relative to industrial health, industrial safety, and the employment of women and children. There were 28 prosecutions during the month, and verdicts of guilty were secured in 23 cases. Seven of the cases involved the employment of minors at prohibited processes and on dangerous machinery, and 12 involved the nonpayment of wages. During the month \$1,664 in wages was paid by employers to employees after complaint had been entered with the department.

During the year ending November 30, 1924, there were 65,987 inspections and reinspections made. Wages paid by employers to employees during the year after complaint had been entered with the

department amounted to \$26,933.64.

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#### Minnesota

A STATEMENT furnished by the Minnesota Industrial Commission shows that during the first quarter of 1925 the division of coident prevention made 5,817 inspections and issued 1,448 orders. Compliances were secured in 804 cases. The following statement hows the activities of this division by months:

Month Process Control of the Control	Inspec- tions	Orders	Compli- ances
anuaryebruary.	2,000 1,727 2,090	554 385 509	315 259 230
arch	2,090	509	230
Total	5, 817	1, 448	804

Orders Comple

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#### New Jersey 1

THE Bureau of Hygiene and Sanitation of the New Jersey Depart. ment of Labor, during the fiscal year 1923-24 made 13,859 inspections, of which 57 were of tunnels, 219 were of mines and quarries, 570 of mercantile establishments, 4,409 of bakeries and confectionery establishments and 8,613 were inspections of factories. As a result of these inspections, 4,301 orders were issued, 1,743 were complied with, and 163 were canceled.

A law was recently passed in New Jersey, extending the scope of the workmen's compensation law to include specified occupational diseases. It is expected that this law will have a "decided influence on the work of promoting better sanitary conditions in trades where workers are exposed to dangerous trade poisons. An improvement has already been noted in plant upkeep, maintenance and general sanitary practices in industries where trade poisons are used that come under the jurisdiction of this legislation."

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#### Ohio

A CCORDING to the March and April, 1925, issues of Industrial Relations (Columbus, Ohio), during March the division of workshops and factories of the Ohio Department of Industrial Relations made 4,035 inspections as compared with 3,584 in February. Of the inspections made during March, 3,400 were inspections of factories, while the remainder were of buildings of various sorts. As a result of these inspections 965 orders were issued to insure compliance with the sanitation and safety laws.

During the same month the division of mines and mining made 293 inspections of mines (299 in February). Seven fatalities were also investigated.

TEMENT furgished by the Minnesota Industrial Commiso shows that during the first quarter of 1925 the division of

at prevention made 5,817 inspections and issued 1,448 orders.

uplances were secured in 804 cases. The following statement

the activities, of this division by months:

<sup>&</sup>lt;sup>1</sup> New Jersey. Department of Labor and Rehabilitation Commission. Annual report, for the year July 1, 1923, to June 30, 1924. [Trenton, 1924?], p. 23.

## WHAT STATE LABOR BUREAUS ARE DOING

Other information from the report include wages, page 85; men-

Oklahoma. - Recent employment statistics, pages 140 and 149

operations under the State workmen's compensation act, part 19

ployment, page 139; and placement of the deaf, page 151

A MONG the activities reported by State labor bureaus, the following are noted in this issue of the MONTHLY LABOR REVIEW:

Arizona.—Mine inspection, page 235.

California.—Recent employment statistics, page 141.

Illinois.—Recent employment statistics, pages 138 and 143; and industrial accidents in coal mines, page 182.

*Iowa.*—Recent employment statistics, pages 138 and 145.

Maryland.—Recent employment statistics, page 146.

Massachusetts.—Recent minimum-wage orders, page 109; recent employment statistics, pages 138 and 147; operations under the State workmen's compensation law, page 190; and factory inspection, page 235.

Minnesota.—The division of women and children of the Industrial Commission of Minnesota reports 926 regular inspections and 683 special investigations made for the first quarter of this year. greater part of the work of the investigators has during this period been confined to the three largest cities of the State, only seven other towns having been visited. Two hundred and eighty-one orders were issued to secure compliance with various sections of the State

Two employers were prosecuted for violating the hour law regulating the employment of women, and in each case the employer was fined \$25. One employer was prosecuted for failure to keep a record of his employee's working hours; sentence was suspended in this

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Wage adjustments in the amount of \$2,588.94 were paid to meet the requirements of Wage Order No. 12. This involved 55 firms and

139 woman and minor male employees.

Other activities noted in this issue of the Monthly Labor Review include work of the public employment offices, page 138; and factory inspection, page 235.

Missouri.—Report of the Negro Industrial Commission, page 32. Nevada.—Operations under the State workmen's compensation act,

page 191.

New Jersey.—Industrial accidents and diseases, page 183; operations under the State workmen's compensation act, page 193; and factory and mine inspection, page 236.

New York.—Average weekly earnings of factory employees, page 84;

North Carolina.—The Commissioner of the Department of Labor and Printing of North Carolina in the thirty-fourth report of the department recommends the enactment of a workmen's compensation law, safety legislation, laws for the better protection of children and women employed in industry, the application of the eight-hour day, especially in the more hazardous and "wearing" occupations, and legislative authority for the department of labor to act as a board of mediation and conciliation in labor disputes.

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Other information from the report include wages, page 85; unemployment, page 139; and placement of the deaf, page 151.

Ohio.—Recent employment statistics, page 140; and factory and

mine inspection, page 236.

Oklahoma.—Recent employment statistics, pages 140 and 149; and operations under the State workmen's compensation act, page 193. Virginia.—Public instruction as to benefits of the State workmen's

compensation act, page 194.

Wisconsin.—Recent employment statistics, pages 140 and 150.

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omen employed in industry, the application of the eight-hour day, recally in the more bazardous and "wearing" occupations, and Stative sutherity for the department of labor to act as a board

court.—Report of the Negro Industrial Commission, page 32. "da -Operations under the State workmen's compensation act,

cane inspection, page 236.

employment statistics, page 148.

a mediation and conciliation in labor disputes.

Jesey, -Industrial accidents and discusce, page 183; operations the State workmen's compensation act, page 193; and factory

c) ork -- Average weekly eurnings of factory employees, page 54.

the Carolina.—The Commissioner of the Department of Labor ricting of North Carolina in the thirty-fourth report of the stunged recommends the enactment of a workenen's compensation salety legislation, laws for the better protection of children and

## CURRENT NOTES OF INTEREST TO LABOR

#### Conditions in Foundries in 1924

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THE International Molders' Journal for February, 1925, states that the year 1924 was on the whole a very unsatisfactory year in the foundry industry.

It was a year during which the trade depression was so severe at one time as to prompt the executive board to extend the out-of-work benefits. As a result, 137,310 out-of-work stamps were placed in members' due books during the year. The last quarter called for 38,545 out-of-work stamps, indicating how unsatisfactory trade conditions were in the last three months of the year.

The same authority states that the expenditures from the sickbenefit fund were much above the average.

As is usual with periods of dull trade, the sick benefits mount up, \$43,296.20 being paid out in sick benefits during the quarter, a total of \$208,114.40 being paid out during the year. Nineteen hundred and twenty-four was one of the years when the total disbursements for sick benefits exceeded the income, the payments exceeding the receipts by \$6,788.63.

From January 1, 1896, to December 31, 1924, the iron molders' union paid out \$4,753,060.65 in sick benefits.

## Congress of Pan American Federation of Labor 1

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THE Pan American Federation of Labor held its fourth convention in Mexico City, Mexico, December 4 to 9, 1924, under the chairmanship of the late Mr. Samuel Gompers. A résumé of the principal features of the resolutions which were adopted pertaining to labor, follows:

The congress pronounced in favor of a rise in wages, in order that the workers might be able not only to provide for their every-day requirements, but also to enjoy some measure of comfort and to effect economies for their old age.

On the proposal of the delegates of the Dominican Republic, the Congress requested the affiliated organizations to make every effort to secure the introduction of the eight-hour day in that country, and also to secure that native workers should be preferred to immigrants.

On the proposal of the delegates of Panama, the congress recommended that national workers should be preferred to workers from Jamaica and Barbados, who were often employed on the canal by reason of the lower wages which they

were willing to accept.

On the proposal of the delegates of Guatemala, the congress demanded the introduction of the eight-hour day in Guatemala and the fixing of a minimum wage for workers and domestic servants; also the establishment of conciliation and arbitration committees and the recognition of the right to strike.

<sup>&</sup>lt;sup>1</sup> International Labor Office. Industrial and Labor Information, Geneva, March 2, 1925, p. 26.

#### Difficulties in Compilation of Statistics in China

THE Chinese Economic Monthly, published by the Chinese Government Bureau of Economic Information, for February, 1925, contains an article (pp. 23-32) on the difficulties connected with collecting economic statistics in China. The Chinese bureau has been collecting statistics for about four years. Comparatively little has been published, however, as often after much laborious work in the collection and compilation of the figures they are found to be valueless. The lack of a common system of weights and measures presents the chief difficulty in the compilation of statistics, while the inaccuracy of population and production figures makes it impossible to check figures which might otherwise be usable. For example, the figures on production of some agricultural products represent only the amount which is handed to the Government as tax while for others records do not cover consecutive years or are shown only in percentages. If these figures on production were accurate, or if the statistics as to the population or those on imports and exports were more than estimates, it might be possible to check one set of figures by comparison with the others. In 1912 the Ministry of Agriculture and Commerce began to publish an annual statistical report dealing with manufactures and commerce and in 1914 the first agricultural statistics were published.

China as a whole is still largely controlled by custom and tradition. The annual rent of land which has been long under cultivation was fixed between landlord and tenant in most cases a couple of hundred years ago and since then the annual rent paid from year to year has varied according to the relation of the crop to the area cultivated. If, for example, the grain which actually ripens covers approximately seven-tenths of the area the crop is considered 70 per cent, and the rent for the year is set at 70 per cent of the fixed rent. An expert farmer can judge the percentage just before the grain is harvested. Taxes are reduced by the Government on the basis of the crop produced, a 10 per cent reduction being allowed when the crop is 40 or 50 per cent and so on. When crop-production figures for different years are compared for the same Province or district there are often great discrepancies found. This may be due to the inclusion of various kinds of grain under the same heading at different times or to wrong conversions of the local systems of weights.

In contrast with western countries where there are standard systems of weights and measures, those used in China differ between Provinces and districts and even in the same district there may be two or more weight units used for different purposes although the name of the unit is the same. The ordinary equivalent for a picul—133½ pounds—is correct only for the system of weights adopted by the Maritime Customs Service. In Shanghai, for example, a picul of rice is 150 catties and of wheat 135 catties, while in Yunnan the equivalents are 1,200 and 1,000 catties, respectively, and there are still other equivalents for beans, Indian corn, and other cereals. In Tsinan in addition to the pound avoirdupois there are five other units in common

In measurements there are similar differences. An "official mow" contains 6,000 square feet but there are many other kinds of mow which range from 8,000 to 17,500 square feet. One chih (foot) of

cloth measure is generally one-tenth larger than one chih of wood measure although there is no uniformity in either measure as between different cities. In some places the chih is of different length for measurements of cloth, silk, fine timber, ordinary timber used for

building, and for furs, ribbon, etc.

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The most confused systems of weights and measures are found in the large cities as merchants from different Provinces trading there bring their own measures with them and frequently these measures are modified to suit the local conditions and new units come into use which differ from the local and their own original measures. In Peking, where a new official unit of 32 centimeters has been established, 71 scales all supposed to represent the same unit of length were collected, the range being from 27 centimeters to 41.1 centimeters. These variations could apparently be multiplied indefinitely. The Central Government has adopted a uniform system of weights and measures but so far it has been rigidly applied only in the Province of Shansi, where the provincial authorities inspect the instru-

ments used by the merchants once a year.

The second difficulty in collecting Chinese statistics is caused by the different values of the currency. Although the Yuan Shih-kai dollar has become the national coin, silver in taels is still extensively used, there being 72 standard taels in use in 72 large commercial centers. Even these do not include all the taels at these places, as each city has different taels for different purposes, while smaller towns have their own taels for local uses. The taels differ in both weight and fineness. The bankers know their relative par values but the rates of exchange depend upon the demand and supply of silver at the two localities concerned. In some places small silver dimes take the place of dollars but, like the dollars, the value varies according to the fineness of the silver. The use of brass cash has largely been given up and copper coins worth 10 or 20 cash are in general use. The exchange varies in different places, however, from less than 200 to 270 to the dollar. One tiao is nominally 1,000 cash or 100 coppers but its value also differs widely and is further complicated by the practice of giving the tiao a 2 per cent discount, making it worth 49.9 instead of 50 coppers. Comparison of prices, therefore, between different places depends upon what the monetary unit stands for in each case and in addition it is necessary to know how the coppersilver exchange rate at one place compares with that at the other

A writer in the North China Herald of August 19, 1916, is quoted as follows in his summarization of China's money troubles:

If a man comes into a shop one day when 93 cash constitute 100, and of these 93 cash 70 per cent should consist of large cash and 30 per cent small cash, and he makes a 29-cash purchase he will readily spend an hour or so arguing with the shopkeeper as to what 70 per cent of 93 per cent of 29 is; and since the Chinese have no actual system of reckoning on paper, it must all be calculated with the ubiquitous suan pan, or "abacus." Is there any wonder, then, seeing that a hundred cash are not a hundred, and a thousand cash not a thousand, that the Chinese say that if you take any given sum on the street and convert and reconvert it ten times, you will have nothing left, even if you start with a million.

The wages of laborers in most localities are paid in coppers and the necessaries of life are also priced in coppers. There is such a close relation between these two in terms of that currency that a conversion of the wages into dollar equivalents will give an entirely wrong impression unless the living conditions are known. Twenty-five cents a day, for instance, is a very low wage, but in a particular locality silver dollars may be so scarce and the necessaries of life so low that the wages may in reality yield quite a surplus to the laborer.

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In financial statistics the difficulty of converting foreign currencies makes it almost impossible to reach even an estimate of the indebtedness of China. Nearly all foreign loans to China are made in the currencies of the creditor countries and the fluctuation of the exchange rates makes it practically useless to calculate accurately sums

below thousands of dollars or even hundreds of thousands.

Standardization in China is needed not only in the weights, measures, and currency systems but also in the names of commodities. Various commodities may be known by one name and one commodity may have several names. Zinc formerly had no name but was called by the same name as lead. Indian corn has a standard name but has totally different names in Peking, Shanghai, and Szechwan. It is therefore necessary to know the local names of all the different commodities in order to interpret statistical returns intelligently. In regard to manufactured articles the situation is still worse, so that it is nearly impossible to collect the market quotations on piece goods, for example, without sending samples of the goods to investigators. Much confusion has been caused, too, by the use of both Chinese and Japanese names for one article. Production figures in manufacturing plants, also, are seldom accurate, as often the full producing capacity of the plant is given instead of the actual quantity produced.

Geographical names are another cause of perplexity to the statistician as almost all cities of China have two names, one used under the Manchu dynasty and one under the Republic, while some have had their names changed more than once under the Republic.

## Norwegian Profit-Sharing Scheme 2

UNDER a profit-sharing scheme inaugurated by a Norwegian shipping company as an incentive to its workers to remain in its employment, members of crews on vessels in the American service who have been in the employ of the company for not less than 18 months are to receive 10 per cent of the net profits; members of crews on vessels in both American and European service 7½ per cent; and members of crews on vessels in European service who have been in the employ of the company for not less than 12 months 5 per cent.

#### Creation of National Economic Council in Portugal<sup>3</sup>

WITH a view to lowering the price of foodstuffs of primary necessity and of raw materials as well as coordinating the study of all economic questions a National Economic Council was recently created in Portugal. The council is composed of the Prime Minister

Idem, p. 14.

<sup>&</sup>lt;sup>5</sup> International Labor Office. Industrial and Labor Information, Geneva, Feb. 23, 1925, pp. 32, 33.

and the Ministers of Finance, the Colonies, Labor, and Agriculture. The powers and duties of this council are as follows: (1) To take necessary steps for the standardization of the price of foodstuffs of prime necessity; (2) to look after the supply of domestic and imported goods; (3) to aid in the placement of unemployed persons in the national industries and in public works, and in the latter case drawing up collective labor agreements; (4) to adapt the instruments of national production to national interests as far as possible in accordance with existing legislation; and (5) to encourage and develop exports, and to discover markets for surplus products of the national industry.

#### Right of Association in Portugal 4

THE President of Portugal issued recently a decree broadening the scope of the legal recognition of the right of association. The main provisions of the decree are as follows: Class associations or trade-unions duly constituted may meet in federations or unions, provided they present two copies of their statutes to the Ministry of Labor. One of these copies will be sent to the persons concerned within 15 days, with a note of its registration. Without this copy federations or unions may not function. Upon being registered the said class associations or trade-unions acquire legal personality for all legal purposes, particularly as regards the conclusion of collective labor agreements. The Government will publish necessary regulations for the exact observance of this decree.

International Labor Office. Industrial and Labor Information, Geneva, Feb. 23, 1925, pp. 8, 9.

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### PUBLICATIONS RELATING TO LABOR

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# Official—United States

Arizona.—Mine Inspector. Thirteenth annual report, for the year ending November 30, 1924. [Phoenix, 1925]. 77 pp.

Data from this report are given on page 235 of this issue of the Montely Labor Review.

California.—Commission of Immigration and Housing. Annual report [for the year 1924]. Sacramento, 1925. 34 pp.

Deals with the activities of the commission along three lines—complaints, camp sanitation, and housing. During the year the commission handled 2,262 complaints from immigrants, covering discrimination, injustice, neglect, and even family troubles. Of these, only 263 were found upon investigation to be unfounded. In the remaining cases, the trouble was either adjusted by the commission or referred to the proper agency for action.

ILLINOIS.—Department of Mines and Minerals. Forty-third annual coal report of Illinois, 1924. [Springfield, 1924?] 375 pp.

Certain data, taken from this report, on productivity of coal miners and on accidents in Illinois coal mines are given on pages 101 and 182 of this issue of the Monthly Labor Review.

Massachusetts.—Department of Banking and Insurance. Division of Insurance. Annual report for the year ending December 31, 1923. Part II: Life, miscellaneous, assessment and fraternal insurance. Boston, [1924?]. Public document No. 9.

Figures on workmen's compensation, taken from this report, are given on pages 190 and 191 of this issue of the Monthly Labor Review.

— Department of Labor and Industries. Division of Minimum Wage, Report for the year ending November 30, 1923. [Boston, 1924?] 15 pp.

This report is noted on page 109 of this issue of the Monthly Labor Review.

board members. Boston, January, 1925. 8 pp. (Reprint.)

MINNESOTA.—Industrial Commission. Workmen's compensation decisions, Vol. II, June 1, 1923, to December 31, 1924. [St. Paul, 1925?] 413 pp.

This volume is the third of a series of reports of important decisions by the supreme court of the State and the industrial commission or its predecessor, the Minnesota Department of Labor and Industries, the first of the series having been issued as Bulletin No. 17 of the latter department. Taken together, they present a complete record of decisions since the workmen's compensation act became effective in 1913. The compilation is made "in the hope that it will prove of value to laymen and lawyers alike in determining the rights of insured and insurer under the provisions of the workmen's compensation act of Minnesota." Indexes and cross indexes of subject matter and lists of cases assist in making the contents of the volume available to the reader.

MISSOURI.—Negro Industrial Commission. Third biennial report, 1923-1924.

Jefferson City, [1925?]. 71 pp.

Some discussion of the data contained in this report will be found on pages 32 and 33 of this issue of the Monthly Labor Review.

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NEVADA.—Industrial Commission. Biennial report reviewing the administration of the Nevada Industrial Insurance Act for period July 1, 1922, to June 30, 1924. Carson City, 1925. 26 pp.

A summary of this report is given on page 191 of this issue of the MONTHLY LABOR REVIEW.

NEW JERSEY.—Department of Labor and the Rehabilitation Commission.

Annual report, for the year July 1, 1923, to June 30, 1924. [Trenton, 1924?].
64 pp.

Data from this report on industrial accidents, workmen's compensation, and factory inspection are given on pages 183, 193, and 236 of this issue of the Monthly Labor Review.

NORTH CAROLINA.—Department of Labor and Printing. Thirty-fourth report, 1923-1924. Raleigh, 1924. xiii, 439 pp.

Data from this report are given on pages 85, 139, 151, and 237 of this issue of the Monthly Labor Review.

OKLAHOMA.—Industrial Commission. Ninth annual report, September 1, 1923, to August 31, 1924. Oklahoma City, [1924?]. 28 pp.

A summary of this report is given on page 193 of this issue of the MONTHLY LABOR REVIEW.

UNITED STATES.—Civil Service Commission. Forty-first annual report, for the fiscal year ended June 30, 1924. Washington, 1924. lxii, 170 pp.

The report shows a total of 554,986 persons employed by the United States Government on June 30, 1924, of whom 474,427 were men and 80,559 were women. Only 64,120 of the whole number of Government employees are employed in the District of Columbia. The commission recommends the institution of personnel records, in order to facilitate the compilation of statistics relating to Government personnel. No such statistics have been compiled for 16 years.

The reports of the chief examiner and the director of research are included. In an appendix are given the text of the civil service act, and of the directory and the prohibitory statutes affecting the classified service; the various rulings and Executive orders; and statistics of examinations, appointments and retirements.

— Department of Commerce. Bureau of Navigation. Merchant marine statistics, 1924. Washington, 1925. iv, 73 pp.

Contains, among other statistics, data as to number of American seamen shipped, reshipped, and discharged; desertions; and average monthly wages paid on American merchant vessels of 500 gross tons and over, and wages of American and foreign seamen on vessels of 5,000 gross tons and over. Certain of these wage data are given on page 83 of this issue of the Monthly Labor Review.

— Department of Labor. Bureau of Labor Statistics. Bulletin No. 365: Wages and hours of labor in the paper and pulp industry, 1923. Washington, 1925. iii, 142 pp.

Advance figures from this bulletin were published in the Monthly Labor Review for March, 1924 (pp. 65-70).

Advance figures from this bulletin were published in the MONTHLY LABOR REVIEW for June, 1924 (pp. 132-149).

facturing, 1924. Washington, 1925. iii, 43 pp.

Advance figures from this bulletin were published in the MONTHLY LABOR REVIEW for June, 1924 (pp. 77-80).

goods manufacturing, 1924. Washington, 1925. iii, 36 pp.

Advance figures from this bulletin were published in the Montley Labor Review for September, 1924 (pp. 31-36).

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UNITED STATES.—Department of Labor. Women's Bureau. Bulletin No. 42: List of references on minimum wage for women in the United States and Canada, compiled by Edna L. Stone. Washington, 1925. v, 42 pp.

—— Department of the Interior. Bureau of Mines. Bulletin 190: Coal-mining problems in the State of Washington, by George Watkins Evans. Washington, 1924. vii, 79 pp.

Includes statistics on wages in Washington coal mines from 1914–15 to November 16, 1917, output per man per day from 1913 to 1918, and accidents from 1903 to 1918.

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#### Official—Foreign Countries

Austria.—Bundesamt für Statistik. Statistisches Handbuch für die Republik Österreich. V. Jahrgang. Vienna, 1924. viii, 171 pp.

The fifth volume of the statistical handbook of the Austrian Republic, covering the year 1923. Of the tables contained in the volume there are of special interest to labor those relating to the census of industrial establishments, cooperative societies, wholesale and retail prices, cost of living, collective agreements, employment exchanges, unemployment, labor disputes, trade-unions, and social insurance.

--- Kammer für Arbeiter und Angestellte in Niederösterreich. Lehrlingsschutz und Lehrlings-Fürsorge der Wiener Arbeiterkammer 1921–1922, von Anton Kimml. Vienna, 1923. 124 pp.

A report describing the activities of the Lower Austrian Chamber of Labor in the interest of the protection of apprentices. The contents of the report are discussed in an article in the present issue of the Monthly Labor Review, pages 219 to 221.

Belgique et du Congo Belge, 1922. Tome XLVIII. Brussels, 1924. [Various paging.]

Statistical yearbook for Belgium and the Belgian Congo for 1922, including information on savings and retirement funds, cooperation, accidents, and strikes and lockouts.

Canada.—Department of Immigration and Colonization. Report for the fiscal year ended March 31, 1924. Ottawa, 1925. 59 pp. Sessional paper No. 18.

According to this report, 148,560 immigrants arrived in Canada in 1923-24, of whom 20,521 were from the United States. The corresponding figures for

the previous year were 72,887 and 22,007, respectively.

—— Department of Labor. Government intervention in labor disputes in Canada [by Margaret Mackintosh]. Ottawa, 1925. 22 pp. Supplement to the Labor Gazette, March, 1925.

This pamphlet is briefly noted on page 203 of this issue of the MONTHLY LABOR REVIEW in an article on the constitutionality of the industrial disputes investigation act of Canada.

—— Judicial proceedings respecting constitutional validity of the industrial disputes investigation act, 1907, and amendments of 1910, 1918, and 1920.

Toronto electric commissioners v. Snider et al. Ottawa, 1925. 304 pp.

A summary of this case is given on pages 200 to 203 of this issue of the Monthly Labor Review.

-- (Nova Scotia).—Department of Public Works and Mines. Annual report on the mines, 1924. Halifax, 1925. 351 pp., illustrated.

Data on coal production per man and on fatal accidents in Nova Scotia coal mines, 1908 to 1924, are given on pages 104 and 186, respectively, of this issue of the Monthly Labor Review.

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Germany.—[Reichsarbeitsministerium.] Reichsarbeitsverwaltung. Berufsberatung, Berufsauslese, Berufsausbildung. Berlin, 1925. 319 pp. 32. Sonderheft zum Reichsarbeitsblatt.

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With a view to promoting the growth of a rising generation of skilled workers, which is one of the most urgent problems in Germany, the German Federal Employment Service (Reichsarbeitsverwaltung) has, with the assistance of numerous experts, published the present handbook on vocational guidance, selection of the fittest for a given vocation, and vocational training. The first and greater part of the volume is given over to the subject of vocational guidance. It outlines the aims of vocational guidance, its legal basis, its extent, the cooperation of the schools and physicians, the problems and methods of psychology applied to vocational guidance, gives examples of how vocational guidance in large and medium size cities works in practice, and discusses unemployment among juvenile workers and vocational guidance in Austria.

The second part of the volume is given over to articles by technical experts on the practical training of apprentices in workshops and on examinations given in certain industrial establishments to applicants for work.

- Reichsversicherungsanstalt für Angestellte. Bericht über das Geschäftsjahr 1920. Berlin, [1921?]. 71 pp., illustrated.
- Bericht über das Geschäftsjahr 1921. Berlin, [1922?]. 71 pp.
- Bericht über das zehnte Geschäftsjahr 1922. Berlin, [1923?]. 24 pp.
- Bericht über das elfte Geschäftsjahr 1923. Berlin, [1924?]. 24 pp., illustrated.

The reports of the board of directors of the German National Insurance Institute for Private Salaried Employees for the fiscal years 1920, 1921, 1922, and 1923. This institute is the carrier of the compulsory invalidity and old-age insurance system for private salaried employees in Germany. Since the years covered by these reports fall within the inflation period, the financial statistics contained in them do not give a clear picture of the financial situation of the insurance institute.

(FREE STATE OF SAXONY).—Arbeitsministerium. Landesamt für Arbeitsvermittelung. Abteilung Berufsberatung. Die praktische Berufsberatung unter besonderer Berücksichtigung der körperlich oder geistig Anormalen und Erwerbsbeschränkten. Dresden, 1922. 83 pp.

A handbook on practical vocational guidance, published by the division for vocational guidance in the employment service of the ministry of labor of the Free State of Saxony. The volume lays down general guiding principles for vocational advisers, discusses the cooperation of the school and of the physician in vocational guidance, and differs from other handbooks on the same subject in that it gives special consideration to the vocational guidance and training of physically or mentally abnormal young persons.

— (PRUSSIA).—Statistisches Landesamt. Statistisches Jahrbuch für den Freistaat Preussen. 20 Band. Berlin, 1924. 12\*, 265 pp.

The twentieth volume of the statistical yearbook for the Free State of Prussia, covering the years 1921 to 1923. Owing to the unfavorable financial condition of the State finances, the present issue of the yearbook has been considerably reduced in size but all the more important statistical tables given in former issues have been continued, although in more concise form. Of special interest to labor are the tables relating to housing, factory inspection, strikes and lockouts, miners' wages, cost of living, prices, trade schools, labor colonies, and salaries of civil-service employees.

GREAT BRITAIN.—Census Office. Census of England and Wales, 1921. Occupations [tables]. London, 1924. ii, 303 pp.

It is explained that special pains were taken in this census to secure an improvement in the statistics concerning occupations, and that for this purpose a

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fuller and more scientific classification both of occupations and of industries than had been used heretofore was adopted. The classification is in general based upon the nature of the work performed, "though in the case of the productive occupations the nature of the material worked in has been embodied in the scheme as a factor essentially determining the character of the operations." Unfortunately, the new classification, differing fundamentally from that of the past, allows of little valid comparison between the occupations of the population in 1921 and at the dates of past censuses.

India.—Department of Mines. Report for the year ending December 31, 1923, Calcutta, 1924. v, 120 pp.

Gives data concerning employment, output, accidents, prosecutions, and general conditions at the mines. A summary of the data relating to fatal accidents is given on page 188 of this issue of the Monthly Labor Review.

INTERNATIONAL LABOR OFFICE.—Hours of labor in industry. United States, Geneva, 1925. 120 pp. Studies and reports, series D (wages and hours), No. 14.

This study includes a survey of legislation regulating hours of work in the different States, and the hours worked under collective agreements in certain industries, supplemented by statistics published by official and private organizations.

- The housing situation in the United States. Geneva, 1925. 5 pp. Studies and reports, series G (housing and welfare), No. 2.

The report traces the housing situation in the United States from the development of the war stringency to 1923, deals with the various agencies of housing reform and betterment, and discusses tax exemption laws and rent restriction legislation. It is pointed out that while there is a great difference between the housing policies of the United States and Europe, this difference is of degree rather than of kind, and that the United States has for some time past been moving toward the European attitude.

The United States has slowly moved from purely sanitary regulation, requirements of light and space, water and sewage disposal, to control of rents, prohibition of eviction of tenants, remission of taxes on home building, and actual house construction through cooperative municipal enterprise. In short, in the United States housing has moved from a matter entirely of individual concern, a plaything of the market, the sport of supply and demand, to a matter of associated activity and community concern. Henceforth, the fundamental question will not be whether it is to be left to individual effort, but how much of this necessary housing reform, change or development, as the case may be, shall be left to voluntary and private associated effort and how much to compulsory official control by the community.

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—— Safety devices for woodworking machinery. Great Britain and Switzerland. Geneva, 1925. 80 pp. Studies and reports, series F, second section (safety), No. 2.

In this bulletin the International Labor Office has initiated a new type of service having for its object the bringing together of the work done in different countries in safeguarding machinery in different industries. It was thought that the work of accident prevention would be facilitated by thus making available the results of technical research and practical experience and that much duplication of effort might also be avoided. This bulletin aims to give an objective survey of experiments and safety measures in the woodworking industries.

ITALY.—Cassa Nazionale d'Assicurazione per gl'Infortuni sul Lavoro. La "Cassa Nazionale di Assicurazione per gli Infortuni sul Lavoro" dans son histoire et son développement actuel. Rome, 1924. 186 pp., illustrated.

This volume, published in French, has the object of making the reading public outside of Italy acquainted with the development and the beneficial activities of the Italian National Workmen's Accident Insurance Fund, the principal

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carrier of workmen's accident insurance in Italy. It describes the creation and reorganization of the fund, accident insurance in agriculture, in the Italian colony of Erthrea, of Government workers, and of fishermen, social insurance in Fiume, and the activities of the fund through dispensaries and hospitals, and in an appendix gives a list of the publications of the fund and of the Italian laws, decrees, etc., on workmen's accident insurance and a bibliography of monographs on the same subject. The volume is richly illustrated with graphic statistical charts and photogravures of the offices and hospitals of the fund and of its clinical equipment.

ITALY.—Cassa Nazionale d'Assicurazione per gl' Infortuni sul Lavoro. Consiglio Superiore. Gestione infortuni nell'agricoltura. Bilancio consuntivo

dell'anno 1923. Rome, 1924. 17 pp.

The annual financial report of the division of agricultural accidents of the Italian National Workmen's Accident Insurance Fund, for the year 1923.

— — Gestione infortuni nell'industria. Bilancio consuntivo dell'anno 1923. Rome, 1924. 17 pp.

The annual financial report of the division of industrial accidents of the Italian National Workmen's Accident Insurance Fund, for the year 1923.

— Cassa Nazionale per le Assicurazioni Sociali. Assicurazione obligatoria per la invalidità e la vecchiaia. Rome, 1924. 110 pp.

The text of the law of December 30, 1923, on compulsory invalidity and oldage insurance and of the regulations of August 28, 1924, for its enforcement.

— Ministero dell'Economia Nazionale. Direzione Generale del Lavoro e della Previdenza Sociale. L'occupazione operaia e gli orari di lavoro nel luglio 1923. Rome, 1924. xv, 171 pp. Estratto dal Bollettino del Lavoro, Vol. XLI, Nos. 4, 5, 6.

The results of an investigation by the Italian factory inspection service into the state of employment in July, 1923, as compared with that in July, 1920, and 1922, and into the hours of labor prevailing in July, 1923.

— (COMUNE DI MILANO).—[Ufficio Statistica.] Annuario storico-statistico, 1920 e 1921. Milan, October, 1924. [Various paging.]

The delayed thirty-seventh issue of the historical-statistical yearbook of the commune of Milan, covering the years 1920 and 1921. Of interest to labor are the data on housing, immigration and emigration, cost of living, prices, employment offices, unemployment, industrial accidents, arbitration courts, factory inspection, social insurance, cooperative societies, and employers' and workers' organizations.

NETHERLANDS.—Departement van Arbeid, Handel en Nijverheid. Centraal verslag der arbeidsinspectie in het Koninkrijk der Nederlanden over 1923. The Hague, 1924. [Various paging.]

Annual report of the factory inspection service of the Netherlands for the year 1923 on its various activities.

 [Ministerie van Binnenlandsche Zaken en Landbouw.] Centraal Bureau voor de Statistiek. Jaarcijfers voor Nederland, 1923/1924. The Hague,

1925. lii, 331 pp.

The official statistical yearbook of the Netherlands for the years 1923 and 1924. Of special interest to labor are the statistics on the occupational census, factory inspection, labor disputes, employment exchanges, wages and hours of labor, unemployment, collective agreements, labor organizations, prices, cost of living, and cooperative societies.

(The Hague).—Statistisch Bureau. Uitkomsten van een onderzoek naar de kosten van het levensonderhoud van 28 gezinnen te 's-Gravenhage in 1921 en 1922, met berekening van de driemaandelijksche, wijzigingen dier kosten tot en met September 1924 op den grondslag der uitgaven in 1921. The Hague, 1924. vii, 55 pp.

The results of an investigation made by the municipal statistical office of The Hague into the cost of living for 1921 and 1922 of 28 families residing in that

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Poland (Warsaw).—Rocznik Statystyczny Warszawy, 1921 i 1922. Warsaw, 1924. xii, 265 pp.

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Municipal statistics of Warsaw for 1921 and 1922, including housing, prices and cost of living, wages, and strikes.

Sweden.—Socialdepartementet. Pensionsstyrelsen. Allmänna pensionsförsäkringen år 1923. Trollhättän, 1924. 22 pp.

Report on operations of Swedish pension insurance law in 1923. Contains a résumé in French.

#### Unofficial

ÅHLANDER, FR. E. Förteckning över viktigare litteratur rörande arbetarrörelsen och arbetarfrågan, tryckt i Sverige år 1923. Stockholm, 1925. 19 pp. Bilaga till Fackföreningsrörelsen, 1925.

A list of the more important literature concerning the labor movement and the labor problem printed in Sweden in 1923. This is the first issue, and the publication states that it is the intention to issue this list annually in the future.

AMERICAN ECONOMIC ASSOCIATION. Papers and proceedings of the thirty-seventh annual meeting, Chicago, Ill., December, 1924. St. Albans, Vt., 1925. 165 pp. Supplement to American Economic Review, Vol. XV, No. 1, March, 1925.

The papers relating to labor presented at the thirty-seventh annual meeting of the American Economic Association deal with "competitive exchange" as a method of interesting workmen in output and costs, labor supply and labor effort, and intelligence test ratings of occupational groups.

AMERICAN FEDERATION OF LABOR. Illinois branch. Proceedings of the forty-second annual convention, Peoria, Ill., September 8-13, 1924. Chicago, [1924?]. 440, [10] pp.

A summary of the report of the bureau of cooperative societies of the federation is given on pages 208 to 210 of this issue of the Monthly Labor Review.

AMERICAN MANAGEMENT ASSOCIATION. Cost-finding for personnel activities.

Report by a subcommittee of the Associated Industries of Massachusetts.

New York, 20 Vesey Street, 1925. 12 pp.

The study covered the personnel work of 90 firms in Massachusetts. The average total cost of these activities for these firms was 1½ per cent of the pay roll but the amount spent depended somewhat upon the size of the firm, the large establishments spending proportionately more than those employing less than 500 workers. It was thought that this study might stimulate more uniform accounting practice among firms carrying on organized industrial relations activities.

Barès, René. Le crédit aux coopératives de consommation et la Banque des Coopératives de France. Paris, Les Presses Universitaires de France, 1924. 146 pp.

An account of the form, organization, and operation of the Bank of the Cooperative Societies of France, and of the events leading up to its formation as a separate institution.

Bricklayers, Masons and Plasterers' International Union of America.

Proceedings of the ninth biennial and forty-ninth convention, Saratoga Springs,
N. Y., September 8 [to 20], 1924. Indianapolis, [1924?]. 256 pp.

BROOKINGS, ROBERT S. Industrial ownership—its economic and social significance. New York, Macmillan Co., 1925. x, 107 pp.

A discussion of the changing methods in industry from the time half a century ago when ownership and management were synonymous through the period of the trusts to the present, when management has been separated from ownership

through the widespread purchase of stock of large corporations by people of small means. This diffusion of ownership, the writer states, has brought a laborpublic problem in place of a capital-labor problem, and the problem of continued improvement in the living conditions of the workers is not redistribution of present production but of increased production per capita. The writer considers that the modification of the restrictive provisions of the anti-trust laws, in order to allow greater cooperation of industry in such lines as research, stabilization of industry, etc., and the elimination of restrictive practices of trade-unions and individual workers are necessary to the securing of a fuller measure of efficiency and that to accomplish this purpose there must be developed a constructive. cooperative policy on the part of labor, the public, and the management of industry. The appendixes contain statistics of the growth in consumers' ownership and a comparison of the earnings of investments in industry and banking.

BUXTON, L. H. DUDLEY. Primitive labor. London, Methuen & Co. (Ltd.), 1924. viii, 272 pp.

The specialization of labor of primitive peoples, the influence of climate and locality in the development of primitive industry, and present conditions among inhabitants of the still uncivilized sections of the world are considered in relation to the physical effect which the development of labor has had upon man.

CARNEGIE FOUNDATION FOR THE ADVANCEMENT OF TEACHING. Nineteenth annual report [for the year ending June 30, 1924]. New York, 522 Fifth Avenue, 1924. vii, 236 pp.

The report contains a section on pension legislation and pension systems including teachers' retirement in the United States and in England, governmental pensions in Australia, New South Wales, and Argentina, pensions in industry, and old-age pensions in the United States.

CLEVELAND CHAMBER OF COMMERCE. A survey of personnel activities in one hundred and eleven Cleveland concerns. A joint report of the committee on labor relations and employment managers' group. Cleveland, 1925. 23 pp.

This study, covering the personnel work of 111 concerns in the city of Cleveland, was made for the purpose of determining the extent to which certain kinds of personnel work is being carried on and how often these activities have been started and discontinued, and to prepare the way for a more thorough study of those activities which are shown by the study to be worth further investigation. The study showed that employment offices, dispensary service, recreational associations, and pensions once established were generally regarded as indispensable; savings clubs, insurance and sick benefits, cafeterias, and certain forms of recreation were seldom discontinued, although baseball had been given up in 20 per cent of the firms reporting. Bands and orchestras, company stores, buying clubs, and house organs, on the other hand, have proved short lived in so many cases that "their actual value may be questioned."

Studies in history, economics and public law, Vol. COLUMBIA UNIVERSITY. CXVI, No. 2: Protective labor legislation, with special reference to women in the State of New York, by Elizabeth Faulkner Baker. New York, 1925.

The specific study indicated is prefaced by a chapter on protective labor legislation as reviewed by the courts, covering the United States, including legislation for all adults as well as that specifically for women. The influences bearing upon legislation for women in New York State and the circumstances attendant upon its enactment receive full discussion, including legislative incidents, evidence adduced at hearings, etc. Chapters on enforcement, the effects of protective legislation, and the controversy now raging between opposing schools conclude the volume. Effects are found to vary according as women are or are not a dominant or at least an important factor in the industry. When they predomi-

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nate, protective laws for women are beneficial to both sexes; but if they are in the minority, or can be readily dispensed with, protective legislation tends to exclude them from all opportunity for employment. It is on these results that the opponents of protective legislation stand. Women who have succeeded by superior skill in detaching themselves from the mass chafe under the restraints that protective legislation entails. On the other hand is the hazard to health where the unrestrained desire for gain is left to operate on the masses in which two important groups stand out—one of young women transients in industry and the other of married women who must carry a double burden of home making and of industry. The question is too complex for summary disposal, but "what may be said at this time is that no person, socially minded and intelligent, would stress economic advancement at the expense of health, either for men or for women."

GASSER, ELSA F. Preise, Lebenskosten, Löhne im Jahre 1924. Zurich, 1925. 38 pp. Separatabdruck aus der Neuen Zürcher Zeitung, Nrn. 98, 182, 194, Januar/Februar 1925.

A brief review of the movement of prices, cost of living, and wages during the year 1924, in Switzerland, Great Britain, France, Germany, Italy, and the United States.

—— Produktion und Arbeitsmarkt im Jahre 1924. Zurich, 1925. 20 pp. Sepqratabdruck aus der Neuen Zürcher Zeitung, Nrn. 106, 149, Januar 1925.

Brief review of the movement of production and the labor market during the year 1924 in Switzerland, Great Britain, France, Germany, and the United States.

INTERNATIONAL TRANSPORT WORKERS' FEDERATION. Report of the international congress held from August 7 to 12, 1924, in Hamburg. Amsterdam, 1924, 157 pp.

LOUIS, PAUL. Le syndicalisme Français d'Amiens à Saint-Étienne (1906-1922).

Paris, Alcan, 108 Boulevard Saint Germain, 1924. 233 pp.

A history of French syndicalism from the congress of the Confédération Générale du Travail at Amiens in 1906 to that of the Confédération Générale du Travail Unitaire at Saint-Étienne in 1922. This latter congress was called in June, 1922, by the C. G. T. U., the extremist group which had seceded from the C. G. T. in Décember, 1921, over the question of adherence to the Moscow International.

MINNESOTA, UNIVERSITY OF. College of Agriculture. Extension Division. Special Bulletin No. 88: Cooperative central marketing organization, by John D. Black and H. Bruce Price. St. Paul, April, 1924. 15 pp.

A study of methods used by two types of central cooperative marketing organization—"federated" and "centralized"—in handling such problems of marketing as control of quality; standardizing production; adjusting production to consumption; stabilizing production; controlling consumption to fit production; controlling the flow to market; distributing and inspecting the product; selling; bargaining and price policy; financing; elimination of competitive wastes; improvement of business practice; pooling, etc.

NATIONAL INDUSTRIAL CONFERENCE BOARD (Inc.). Special report No. 32: The growth of works councils in the United States. New York, 247 Park Avenue, 1925. v. 15 pp.

A statistical summary, giving data as to number of works' councils in operation, number established and abandoned during specified periods, nature of industry in which established, cause of failure where plans have been given up, and the like.

OFFICE COOPÉRATIF BELGE. Cooperative Belgium. Brussels, 1924. 128 pp., illustrated.

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A report presented by the Belgian Cooperative Union to the eleventh congress of the International Cooperative Alliance at Ghent. Traces the growth, up to 1922, of the cooperative movement in all its phases, in relation to the economic, political, and industrial condition of the country. Also contains sketches of the lives and achievements of the cooperative leaders in the important cooperative countries of Europe.

OPERA NAZIONALE DEL DOPOLAVORO. Il Dopolavoro. Quaderni del Dopolavoro, No. 1. Rome, [19257]. 46 pp.

Under the name "Dopolavoro" there has arisen in Italy since the war a movement which has as its object the suitable utilization of the spare time of workers for their social, intellectual, and physical uplift. Sponsored by the Fascist corporations this movement, at first scattered, has crystallized into a centralized, well-organized movement under a central organization called the Opera Nazionale del Dopolavoro with headquarters at Rome and numerous branches in all Provinces. The above is the first of a number of reports which the central organization expects to publish. It gives the history and the object of the movement.

Plus Grande Famille, La. Commission d'Éducation. Les carrières féminines. Paris, Action Populaire, 51 rue Saint-Didier, 1922. xxii, 119 pp.

A study of the occupations open to women in France and of the education necessary for the various classes of positions.

Secrétariat des Paysans Suisses. Publication No. 75: Vingt-sixiéme rapport annuel du comité directeur de l'Union suisse des paysans et du Secrétariat des paysans suisses, 1923. Brougg, 1924. 120 pp.

The twenty-sixth annual report of the managing committee and of the secretariat of the Swiss Farmers' Union on their activities during the year 1923.

SOCIAL AND LABOR CONDITIONS IN SWEDEN. Upsala, 1925. 29 pp.

This publication on social and labor conditions in Sweden is reprinted from the Sweden Yearbook, 1925, and covers protection of workers, social insurance, the care of the poor and of children, the labor market, relations between workers and employers, cost of living and wages, the housing problem, and cooperative societies.

TROMBERT, ALBERT. La participation aux bénéfices. Paris, Chaix, 20 rue Bergère, 1924. xv, 442 pp.

A guide to the practical application of profit sharing, giving detailed information of systems in effect in France and other countries.

UNITED TYPOTHETÆ OF AMERICA. Industrial Bureau. Department of Research. Changes in union wage scales in the book and job printing industry, 1914 to 1924. Chicago, 600 West Jackson Boulevard, October, 1924. 23 pp. Compiled primarily for the use of the members of the Typothetæ who have contractual relations with the unions, "to meet their need for data on changes in wages during the past 10 years in their own and other cities for use in wage negotiations and arbitration cases."

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